

WORKBOOKS FROM IDBMA, INC.

The Editor

How To Workbooks From IDBMA, Inc.

The Editor

By Harvey Eric Rodstein

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Dedication

This series of "how-to" books is dedicated to all the people who wanted to use an SMA/Pick-based system but were afraid it was too complicated.

It isn't.

Acknowledgements

Thanks for everything, haneczka, least of which being patience.

Thanks, Leanne, for not shooting me for revision after revision.

Thanks, Gus and Monica, for your trust.

Oh yea, thanks to you for buying this book.

Harvey

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About The Editor

EDIT is the line editor provided as a standard system process used to build and revise items within a Pick file. It allows new items to be added and existing items to be altered or deleted. Any item in any file accessible to you is fair game for the editor. EDIT is used to repair data, write RUNOFF documentation and create and maintain both PROC, BASIC or Assembler source items.

With the editor, what you enter is what you get. All keystrokes are accepted. It's important to know the editor and be cautious because a few wrong moves can be devastating to your data and to a good night's sleep.

Course Objectives

The purpose of this workbook is to help the $SMA^{TM}/Pick^{\textcircled{R}}$ novice master the basic functions of EDIT. It is designed as a self-study tool, consisting of step-by-step explanations of the most frequently used editor functions. These functions and their related commands are presented by example and exercise. At the end of each chapter, there is a short quiz to reinforce the topics covered.

Within each chapter, students are encouraged to follow and enter in, on their system, the examples provided. However, not all examples are hands-on. Please note that those examples in the "rounded-corner" boxes are intended for the student to perform and those in the square boxes are provided for observation only.

This is EDIT in its "generic" form. You may have to consult your manufacturer supplied manuals for implementation differences and extensions.

1. SYSTEM OVERVIEW

1.1 The System

The system, also known as the System Dictionary, can be likened to a "records room" full of file cabinets each containing information logically stored by account.

The System Dictionary is a file containing those elements which define valid accounts. Before you as a user can do any work within the system, you must designate to which account you wish to be assigned. This process is called LOGGING ON.

1.2 Accounts

An Account is a directory of information and services. It can be likened to a file cabinet with a virtually unlimited number of drawers. Each department in a business may have its own account from which to work. For example, the billing department may have an account called BILLING while the shipping department may work in the account called SHIPPING. The single most important account for system operations is called SYSPROG from which all system utilities such as tape backup and system verification are invoked.

Each account has a single Master Dictionary. The Master Dictionary is a file containing those elements defining valid files and commands in the account.

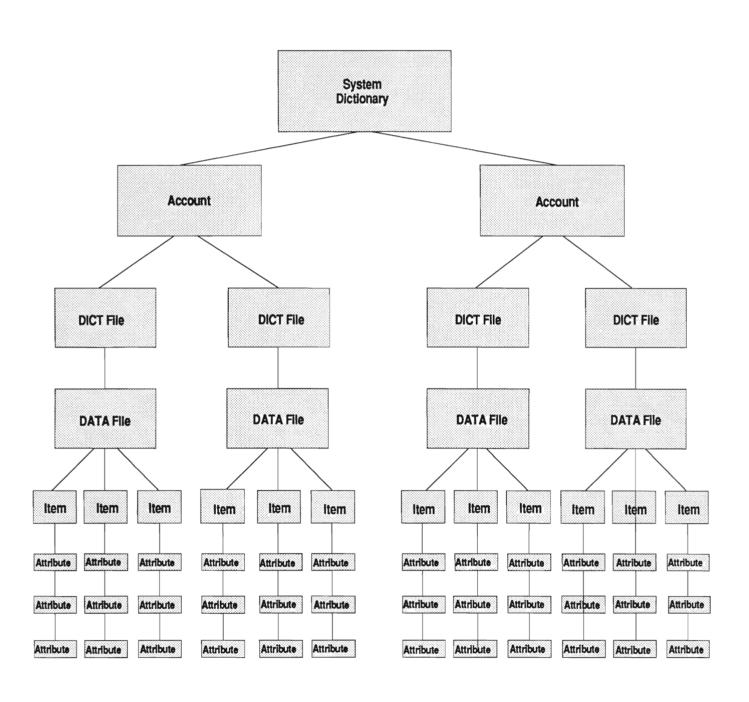
1.3 Files

These are the "cabinet drawers." A file is a set of distinct elements of information grouped according to purpose. Files are usually given names which reflect their use. For example, orders may be kept in a file named ORDERS, while the inventory may be kept in a file called INVENTORY.

Files are actually made up of 2 files or "levels." The "upper" level is called the file DICTionary. The "lower" level is called the DATA portion. The DATA portion contains the data and/or text which make up the file's information.

The DICT level contains special items called "Data Definition Items." These are used by ACCESS for retrieving and formatting data. (ACCESS is the Pick Operating System data retrieval language.) EDIT is used to create and modify items in both the DICT and DATA levels of a file.

Hierarchical Diagram of the System



1.4 Items

These are the "file folders." Each element in a file is called an item.

Items themselves are made up of multiple pieces of information. For example, each item in a file named CUSTOMERS represents a single customer. All the information needed to process this customer is contained within the item. This may include name, address, city, state and zip. Each piece of information is traditionally called a "field." In this environment they are called "attributes."

Many types of information can be stored in an item. Items can consist of fields of data, lines of descriptive text, program code statements (BASIC, PROC, or ASSEMBLER) or data retrieval information (DICTionary Data Definitions).

All data within an item is stored as ASCII characters. (ASCII stands for American Standard Code for Information Interchange).

1.4.1 Item-IDs

Item-ids are used to uniquely identify items within a file and cannot be duplicated. The system automatically passes the item-id through a mathematical algorithm to determine the physical location of the item. This process is known as "hashing" the item. Items in files are stored randomly, not sequentially.

The item-id is a free-form name made up of letters, numbers and punctuations not exceeding 49 characters. This name (IDentifier) is not unlike a reference tab on a file folder. Any retrieval or update of an item must be referenced with both a filename and an itemname (item-id).

1.4.2 Attributes

The fields of information which make up an item are called ATTRIBUTES.

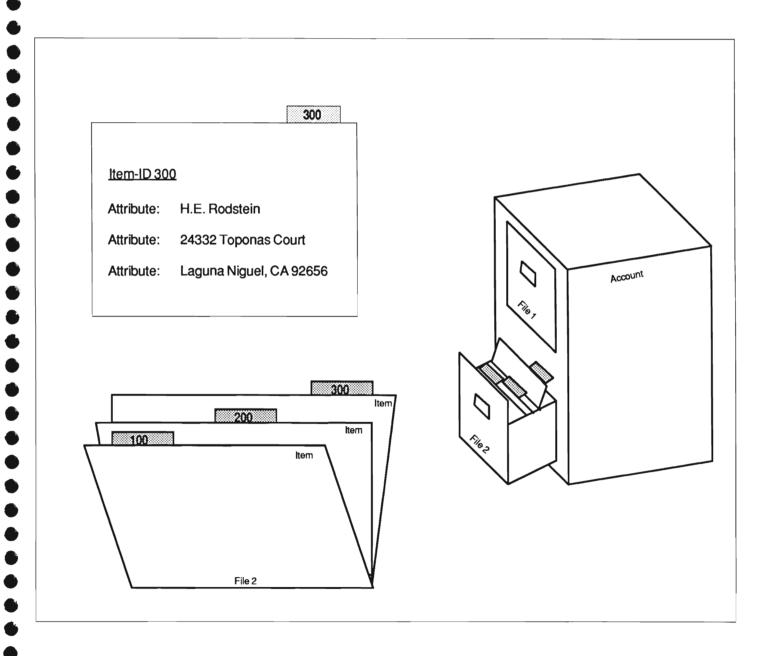
Attributes are variable in length. Please note that in most implementations, a maximum of 32,000 characters is allowed per item.

Sample item 100 from the file CUSTOMER as seen in the editor:

ID: 100		
001	Caesar, Juliu	.5
002	1 Appian Way	
003		
	Olympia	
004	WA	
005	10101	

There are 5 attributes in item 100 above.

The Pick Data Base



This is how EDIT represents the item. Each attribute is assigned a line. Referring to line 004 is synonymous to addressing attribute 4.

Attributes are actually marked internally with a special character. This character is used by the system to determine the end of each line and is called an ATTRIBUTE MARK. $^{\rm 1}$

The physical layout of the above sample item is as follows:

```
100^Caesar, Julius^1 Appian Way^Olympia^WA^10101^_
```

The caret (^) is used to represent an attribute mark. They are displayed by the editor since they indicate the end of a line. The underline character (_) is called a segment mark and is used by the system to mark the end of an item. You don't have to worry about it— it is not part of what you see in the editor.

Attributes can be further divided into fields called "values." An attribute containing many values is said to be a "multi-valued" attribute. Values can be further divided into "sub-values."

Sample item123XYZ from the file INVENTORY as seen in the editor:

ID: 123XYZ

001 Lawnmower

002 47595

003 101]201]505]303

004 3\10\4]2\5\5

Values are marked with value marks and sub-values with sub-value marks. Value and sub-value marks display on an EDIT line as a right bracket () and a back-slash ($\$), respectively.

The physical layout of the above sample item is as follows:

```
123XYZ^Lawnmower^47595^101]201]505]303^3\10\4]2\5\5^_
```

¹ For those who care, an attribute mark is ASCII character 254. EDIT automatically appends this mark to the end of each entered line.

² A value mark is ASCII character 253 and a sub-value mark is ASCII character 252.

003 101]201]505]303

Line 3 contains 4 values. The right brackets (]) represent value marks separating each value within attribute 3. The value "303" is the last value in the attribute and does not have to be terminated with another value mark.

004 3\10\4]2\5\5

Line 4 contains 2 values with 3 sub-values each. The backslashes represent sub-value marks separating each subvalue within each value of attribute 4.

NOTE: Do not confuse these special characters with the normal brackets and back-slashes.

1.4.3 Types of ITEMS Most Often Edited

DATA ITEM

A sample DATA Item layout:

ID: Customer Name

001 Name

002 Address

003 City

004 State

Would look like this:

ID: 100 001 Hornblower, Horatio 002 11110-1 W 57th 003 New York 004 NY

ID: 101

001 Christian, Spencer

002 1234 Bounty

003 Newport Beach

004 CA

TEXT ITEM

ID: NOTES.TO.MYSELF

001 Self, 002 do this, 003 do that! 004 don't do that.

Each line is free-form text.

PROC ITEM

ID: DAILY.REPORT

001 PQ

002 HSORT THE CUSTOMER FILE

003 H BY NAME WITH AMOUNT.DUE

004 A "2

005 H NAME ADDRESS AMOUNT.DUE

005 H LPTR

006 P

Line 1 is the PROC indicator "PQ". Always line 1. Each subsequent line is a PROC statement.

BASIC SOURCE ITEM

ID: SAY.WHAT

001 PROGRAM SAY.WHAT" 002 PRINT "SAY.WHAT"

003 END

Each line is a Pick/BASIC statement.

DATA DEFINITION ITEM

Resides in the file DICTionary.

```
ID:
      NAME
001
002
      1
003
      Customer Name
004
005
006
007
800
009
      L
010
      35
```

This DICTionary item defines the word NAME to be used in an ACCESS statement to report the first attribute (Attribute "A1") of each DATA item as the Customer's Name. Attributes 009 and 010 specify printing information to the system.

The words data and text are used interchangeably throughout the book since the physical nature of data and text is identical within an item. Everything is stored as ASCII characters.

Exercise 1

	contains the definitions of every account.
Tile and cor	mmands are defined in each account's
The	contains Data Definition Items.
The	holds the file's data.
Items are re	etrieved by a unique key called the
Items are ma	ade up of lines of information called
Attributes	are delimited by a special character called an
Name 3 type	s of items that can be EDITed.
_	tributes can an item hold?

NOTES

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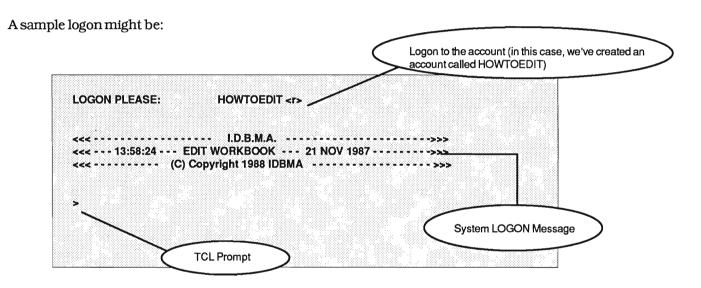
2. Getting Started

2.1 Logging On

Using an account name to LOGON to the system allows you access to the files and commands (information and services) defined within that account.

If you wish to "cookbook" the examples on a live system and you don't already have an account to logon to, it will be necessary to have one created.

The verb used to create an account is CREATE-ACCOUNT. Accounts can only be created from the SYSPROG account. The details involved in creating a new account are covered in the manuals provided with your system. For the sake of getting to the point, those details are not covered within this text. From this section on, it will be necessary to be logged on to an account in order to perform the examples provided.



You are now at TCL (Terminal Control Language.)

The greater-than symblol (>) is the TCL prompt. It tells you that the system is ready for a command sentence to be entered.

Some verbs may "standalone". Such verbs include: TIME, display the current system time and date, WHO, display your port number and account name or LISTU, list the users logged on system. Try these.

Command Sentence:

```
>verb <r>
or
>verb filename item-id <r>
```

The first word of a command sentence is called a Verb, since it invokes action. (The word "invoke" is used to mean "initiate.") Command sentences used to address file items must include both a file name and an itemid. These verbs include EDIT (that's what we're here for), COPY, to move items within and between files and RUN, to start up a BASIC program.

2.2 Looking Around

Onced logged on to an account, it is necessary to get a listing of the files that are available. The verb to do this is LISTFILES.

At TCL type: >LISTFILES <r>

Your listing may look similar to this:

MD	CODE F/BASE	: F/MOD	F/SEP	
OUOTOUEDO	_	0070		
CUSTOMERS	D	6270	1	
DOCUM	D	5929	1	
SAMPLES	D	5413	3	
MEMO	D	6147	1	
ACC	Q	ACC	ACC	
BLOCK-CONVERT		CK-CONVERT		
ERRMSG	Q	SYSPROG	ERRMSG	
M/DICT	Q			
MD	Q			
SYSTEM-ERRORS	Q SYS	STEM-ERRORS	SYSTEM-ERRORS	
10 ITEMS LISTED				

Column header MD stands for Master Dictionary. All files are defined within an account Master Dictionary.

The column heading CODE tells you whether the file is defined locally on your account or is being used but defined on another account. The D represents a locally defined file. The Q represents a synonym for a file defined on this or another account. The remaining colums provide information about the location and size of each file. Please refer to your system manuals for details.

It is now necessary to get a listing of what item-ids are already in the file of your choice. The commands to do this are LIST and SORT. You can try this by using a file name that already exists on your system.

```
>LIST filename <r>
    or
>SORT filename <r>
```

LIST generates a listing of the item-ids in random order. In our example, typing at the TCL prompt,

>LIST CUSTOMERS <>>

would give this:

B. A.		na 10 00		
PAGE 1		08:13:39	20 FEB 1988	
555555555555555555555555555555555555555				
OUGTON	FDO			
CUSTOM	ENO			
102				
IV4				
105				

100				
103				
IUJ				
106				
101				
200				
200				
7 ITEMS I	I toten			86000
/IIEMS	LISTEU.			

Now try this using a filename that exists on your system.

SORT generates a listing of the item-ids in alphabetical or numerical sequence.

>SORT CUSTOMERS <r>

would give this:

666662222222222222222222222222266666666			
PAGE 1	08:13:39	20 FEB 1988	
CUSTOMERS			
OOJIOMEIIO			
100			
101			
102			
103			
105			
106			
200			
200			
7 ITEMS LISTED.			

The results of any of the previous commands can be sent to the printer via the system spooler by using the option "P". Options must always begin with a right parenthesis. The left parenthesis is not required.

Try these commands with your own filenames:

2.3 Setting Up Work Files

If you wish to test the examples interactively on your system, it is necessary to create new work files. The files needed are CUSTOMERS, MEMO and SAMPLES.

Files are created on the current account by invoking the verb,

```
CREATE-FILE
```

The specifics on creating a new file are covered within the system manuals. For now, simply enter the following command sentences at TCL:

```
>CREATE-FILE CUSTOMERS 1,1 3,1 <r>
>CREATE-FILE MEMO 1,1 3,1 <r>
>CREATE-FILE SAMPLES 1,1 7,1 <r>
```

DICTionary modulo, separation

DATA modulo, separation

These commands create both the DICTionary and DATA levels for each file. The parameters used for sizing a file are called a files modulo and separation. A comma separates the two. Modulo specifies the number of statistical groups (sub-files the file will be divided into). The separation determines the number of disk frames that will be contained in a group. Okay, okay, I know what you're saying. What's a frame? WHAT IS A GROUP? The theories and arguments about their use could fill a Techie Review. So with all due regrets, we must move on. You don't have to be acquainted with them to use EDIT.

2.4 The EDIT Verb

The Editor is invoked at TCL by either of the synonomous verbs "ED" or "EDIT." You must specify both the item's filename and item-id in the command sentence.

```
>EDIT filename item-id (options) <r>
or
>ED filename item-id (options) <r>
or
>EDIT DICT filename item-id (options) <r>
or
>ED DICT filename item-id (options) <r>
```

Notice that when invoking EDIT to modify items within the DICTionary of a file, the reserved word DICT must be used. However, when editing data level items, the DATA designator is implied.

You don't need to say,

```
>ED DATA filename item-id
```

2.4.1 TCL Errors

If you should use another word which you think is a Verb and is not, the following error message is displayed:

[3] VERB?

If the filename you are requesting to edit does not exist, the following error is displayed:

```
[201] "filename" IS NOT A FILE NAME.
```

In either case, check the spelling of the offending entry in the EDIT statement. Notice that a number in brackets often appears before the actual system message.

2.4.2 Options

Options are placed at the end of a command sentence and must be proceeded with a left parenthesis. The right parenthesis is not required. EDIT options are provided here for your information only. In most cases, you will not use them.

Ĭ I I I	Option	Description
	A	Assembler formatting. The same as the "AS" EDIT command. Used only if EDIT is being used to enter Assemblersourceitems. (see "Other Commands", Page ##)
	S	Suppress line numbering. Also used to suppress assemblersourceitems. (see "Other Commands", Page ##)
	M	Macro Expansion toggled on and off. The same as the "M"EDIT command. Used only if EDIT is being used to enter Assembler source items. (see "Other Commands", Page ##)
į	P	Send all EDIT messages to the print spooler
I	z	Suppresses both the "TOP" and the "EOI" (end of item) messages.

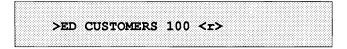
Example:

>EDIT CUSTOMER 101 (P,S)

This edits item 101 in the CUSTOMER file. Suppresses the output of the line numbers and directs all the output to the printer. Notice that there is no TOP message. This combination of options isn't a good idea.

2.5 Editing An Item

To EDIT item 100 in the file CUSTOMERS, the TCL command looks like this:



Your screen displays:

```
>ED CUSTOMERS 100
NEW ITEM
TOP
```

The Editor retrieves this item from the file and places its internal "pointer" at the "TOP" of the item.

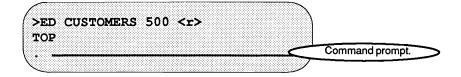
The TOP of an item is the position just before the first line.

Since the item does not already exist, EDIT displays the message,

```
"NEW ITEM"
```

and places you at the "TOP" of the item.

If an item already exists, then the TOP message is the only message that appears.



2.6 Edit Operational Modes

The editor has two modes of operation: the command mode and the text (or data entry) mode.

The command mode is signified by a period (.) and is active by default when an item is edited. The period is a prompt similar to the greater-than (>) prompt used in TCL. The period signifies that the editor is waiting for a command to be entered from the your keyboard. Editor commands allow movement within the item, review of any portion of the text within the item and modification of text. While command mode is active, keystrokes are accepted as commands and not as text.

The text entry mode is signified by the plus sign (+), text entry is initiated by either the (I) insert or replace commands. This mode accepts keystrokes as data to be added to the item.

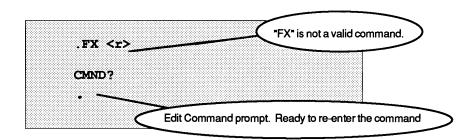
2.5.1 Edit Command Error

If an EDIT command is invalid, the message,

CMND?

appears. (System messages occurring within EDIT do not have preceding numbers.)

The command must be re-entered correctly:



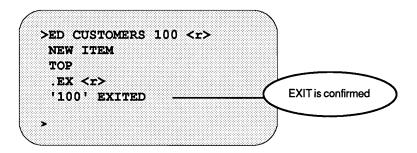
2.5.2 Exiting Edit

There are two ways to leave the EDIT process.

To EXIT the item without saving the results, use:

<u>Command</u>	<u>Description</u>	
EX	EXIT the editor without saving the item. Automatically EDIT the next item if an item-list is active. (See below.)	
EXK	EXIT the editor without saving the item and return t TCL. The "K" means "kill" an active item-list.	

Exiting (EX) an item without saving it is useful to review data non-destructively, or back out of any changes made since your last save command. Try this:

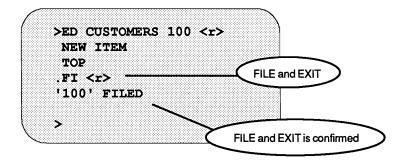


Exiting a single item returns you to the TCL prompt. If an item-list (see next section) is involved, the EDIT process is automaically invoked on the next item.

TO EXIT the item and SAVE the results, use:

i	Command	<u>Description</u>
	FI	FILE (SAVE) the item and exit EDIT. If an item-list is active, EDIT the next item.
	FIK	FILE the item and exit EDIT. The K means "kill" any active item-list and return to TCL.

Try this:



We've just filed a null (empty) item. Don't worry. We'll learn how to delete it later.

2.5.3 Using Item-Lists

EDIT can also be invoked for more than one item. This specification is called an item-list.

>ED filename item-list

or

>ED DICT filename item-list

An item-list can be a sequence of item-ids separated by spaces,

>ED filename item1 item2 item3 item4

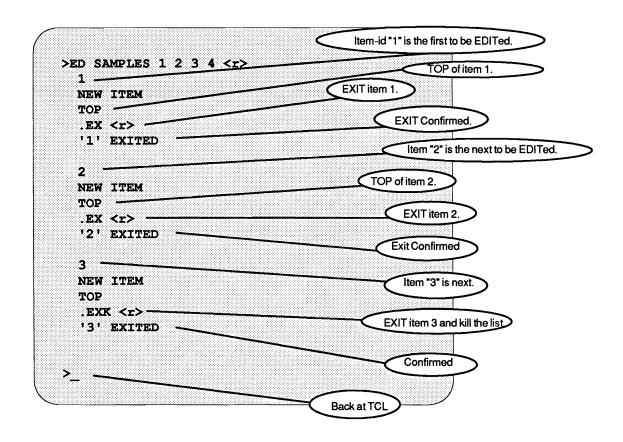
which will EDIT each of these 4 items in sequence, or by an asterisk (*),

>ED filename *

to EDIT every item on file.

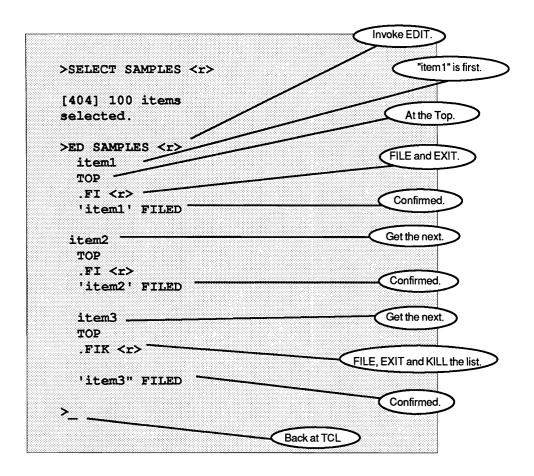
Example,

EDIT 4 items (1,2,3 and 4) in the file SAMPLES.



If items already exist on a file, an item-list can be built using an ACCESS statement using either the verb SELECT, SSELECT, GET-LIST, or QSELECT. Such an item-list is referred to as a "select-list." If a select-list is active, then the item-id can be omitted from the EDIT statement. Each item on the ACCESS list will be EDITed in turn.

Example:



The section entitled "Sample Items" contains the items used as examples throughout this book. These items can be entered as an exercise in the chapter entitled "ADDING LINES".

Exercise 2

1.	Files under an account are made available for use by entering the account name a
2.	TCL stands for
3.	Words which invoke action are called
4.	produces a listing of all the files within an account.
5.	produces a random listing of all item-ids within a file.
6.	produces a sorted listing of item-ids within a file.
7.	Enter the command to EDIT item A20 in the INVENTORY file.
	>
8.	A20 does no already exist. Enter the system response.
	•
9.	What does the period (.) represent?
10.	Fill in the command that is invoked.
	•
	'A20' EXITED
	>
11.	What does the ">" represent?

12. Fill in the appropriate commands.

>ED INVENTORY

A1

TOP

'A1' EXITED

A2
TOP
'A2' EXITED

A3
TOP
.
'A3' EXITED

>

13. Fill in the commands.

>ED INVENTORY *<return>
A6
TOP
'A6' EXITED

_

NOTES

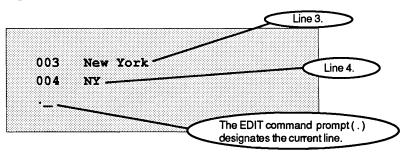
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3. Getting Around An Existing Item

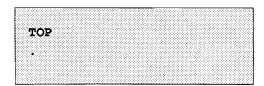
These are the commands which do not affect the data but allow you to move about an item and review the contents. It is necessary to cover these commands before getting into creating and altering items. If you wish to follow along your system, any item in any file will serve to demonstrate the actions of these commands, but don't feel obligated. We're just trying to lay a foundation for Chapter 4, Adding Lines.

EDIT uses an internal line pointer to keep track of the position of the currently active line. All commands which affect the data work on or from the current line position.

For example, if we view a small portion of an item,



The current line is 4.



At the top of the item, the current line is 0.

3.1 Absolute Positioning

Absolute positioning commands take you to a specific point in the item.

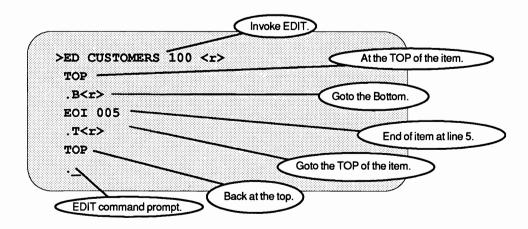
Į	Command	Description
i	T	Positions the line pointer at the TOP of the item.
	В	Positions the line pointer at the BOTTOM of the item.
	Line number	Goto line number. The line displays and becomes the current line.
	G line number	Goto line number. The G is optional. As above, the line number becomes the current line.

Now, here's Catch 22. You need to be familiar with these commands before you can effectively input data, but we can only demonstrate how they work with existing data. We haven't put the sample data in yet, which comes in the next chapter. So this chapter is FYI. If you're brave, then you can find some existing data on you machine and practice with these commands. These commands will not alter your data.

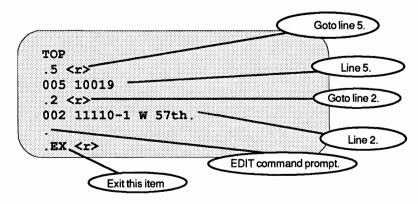
The TOP is just prior to the first line, 001, of the item. It may be considered to have a line number of 000.

The BOTTOM of the item is just after the last line.

Now try this. EDIT item 100 on the CUSTOMERS file.



Either the line number or the G followed by the line number, sets the line pointer to the requested line number.



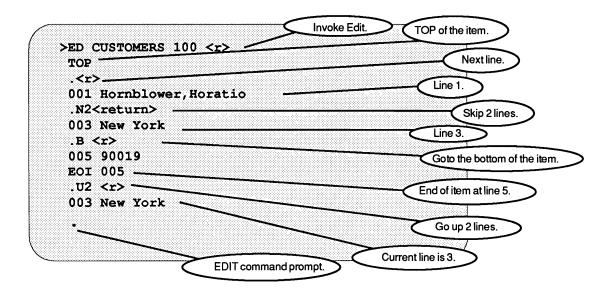
3.2 Relative Positioning

Relative positioning lets you address other lines in the item by skipping forward and backward from the current line.

	Command	Description
į	<return></return>	Goto and show the next line.
	N number of lines	Next number of lines. Go down the next "number of lines" from the current position.
Ī	U number of lines	Up number of lines. Go up the "number of lines" from the current position.

(U)p and (N)ext allow you to move the line pointer backward and forward through the item.

EDIT item 100 in the CUSTOMERS file.



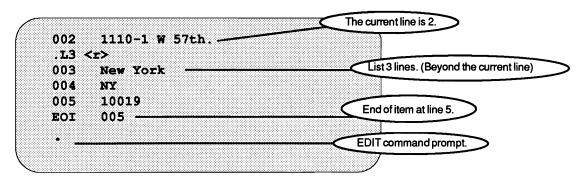
3.3 Reviewing The Item

EDIT allows you to move around within the body of an item to display a single line or a series of lines.

The LIST LINES (L) command is used to review portions of the item.

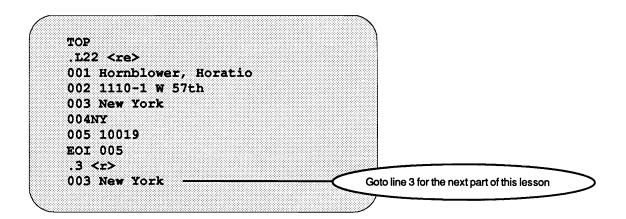
Command Description List (n) number of lines from the current position.

Try this. While still in 100 in the CUSTOMERS file, go to line 2 of item 100 in CUSTOMERS and LIST 3 lines.



LIST leaves the line pointer at the position of the last line displayed. Line 5 is now the current line.

Since most terminals have only 24 lines of display at a time, the most you may wish to ask for is 22 lines before the screen will scroll away. The command would be "L22 < r>". Try this command here.



3.4 Getting Item Information

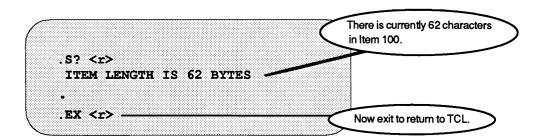
The following commands are used for displaying item status information.

Command	<u>Description</u>
?	Show the filename, item-id and present line number.
S?	Show the size of the item. The size of an item is the total number of characters (bytes) which make up the item.

Sometimes it's useful to verify which item you've decided to edit. Try this command here.

003 New York
.? <r>
CUSTOMERS 101 LINE 003

The number of lines in an item is variable and effectively infinite. However, you must remember that the maximum number of characters that an item can hold is 32,000. The "S?" command is useful for checking the growth of an item. Try this command here.



Item 300 exists Also fill in the			Fill in the	TCL command	to invoke EDI
>					
					
•					
EDIT keeps track	of the curre	ent line, us	ing a		_ ·
The display of a	line number	and the val	ue of the l	ine followed	by a period,
003 Los Angeles					
•					
designates that	the current 1	ine is		·	
Using absolute p	ositioning, f	fill in the	appropriate	commands.	
EOI 005					
	reet				
•	1000				
004 CA					
TOP					
'300' EXITED					
>					
Haina malatina m		6111 in who			
Using relative p	ositioning, i	iiii in the	appropriate	e commanas.	
EOI 005					
001 75 -1 -1 - Dh 11	_				
001 Kvetch, Phil	.О				
004 CA					
005 97711					
EOI 97711					
•					
The current line					

TOP				
•				
001 Kvetch, Phil	0			
002 12 Anyway St	reet			
003 Yentaville				
004 CA				
•				
The current line	is	•		
The command to c	book the item	eizo ie		
The Command to C	Heck the Item	3126 13		·
The maximum numb	er of lines in	n an item i	S	
In this same ite	em, fill in the	e system re	sponse.	
004 Yentaville				
.? <return></return>				

NOTES

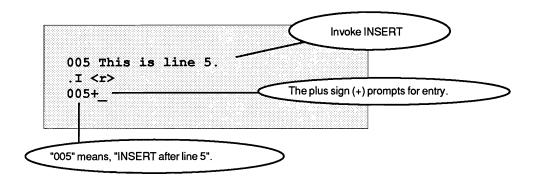
	•
	•
	•
	•
	•
	•
	•
	•

4. Adding Lines

The process of adding lines to a new or an existing item is called INSERT.

Command	<u>Description</u>
I	Continuous INSERT. Allows the entry of multiple lines of data. A < return > by itself on a line ends INSERT.
I text	INSERTS the single line of text following the current line.
Related Con	nmand
F	Flip buffers. Include the last series of changes to the work item without writing to the file. This occurs automatically at the termination of INSERT in a new item. See "Saving Your Work."

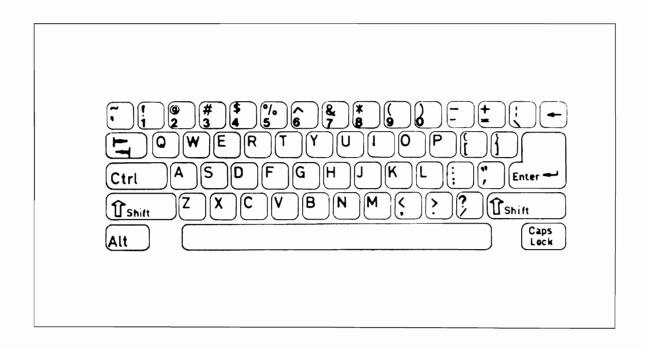
Invoking the I command prompts you to enter data from the terminal's keyboard. The INSERT prompt is the plus sign (+). It would appear on your terminal as in this example:



EDIT is now waiting for you to enter text from the keyboard.

4.1 Entering Text From The Keyboard

You can now enter text and data from the terminal keyboard. While INSERT is active, all keystrokes are treated as text, except for the following "control" keys:



Special Keys

<return> indicates the end of a line.

 <backspace> back up input by 1 character. You can't <backspace> beyond the beginning

of a line.

<tab> advances input to the next tab stop.

<shift> is the Shift key. Used to change the case of letters or the value of number and

punctuation.

Control Keys

(Control keys are generated by depressing the <ctl> key simultaneously with any other key.)

<ctl> is the control key, used in conjunction with other keys to alter their function.

<ctbh same as <backspace>.

<ctbi same as <tab>.

<ctl>X restarts input at the beginning of the current line.

<ctl>W backs up input to the previous word.

Be careful with these:

<ctl>S is called X-OFF. It tells the system, "Don't send me anything until you hear from me again with

an X-ON."

<ctb9 is X-ON. It tells the system to start sending again!

If the <ctl>S is typed accidentally, the system appears to hang (stop processing). There is no response. Simply type a <ctl>Q (X-ON) before calling the DP department.

Note: Typing any of the remaining control characters imbeds them within the text. There are no equivalent display characters for them. Therefore, EDIT displays a period (.) to mark the location of a <ctl> character. This can lead to problems since this "lint" is indistinguishable from an actual period.

There are a few other keys which generate characters different from the actual display. The following list covers what is displayed on most terminals. However, it is not standard and may differ on yours. If this is true in your case, note the characters displayed for future reference. Now we're ready to create some test data using the editor.

<e< th=""><th>scape></th><th>Displays as a left-bracket ([).</th></e<>	scape>	Displays as a left-bracket ([).
<c< th=""><th>tl><shift>6</shift></th><th>Generates an attribute mark. Displays as an up-arrow (^).</th></c<>	tl> <shift>6</shift>	Generates an attribute mark. Displays as an up-arrow (^).
<c< th=""><th>tl><shift>]</shift></th><th>The control, shifted right bracket generates the multi-value delimiter, a Value Mark. Displays as a right-bracket (]).</th></c<>	tl> <shift>]</shift>	The control, shifted right bracket generates the multi-value delimiter, a Value Mark. Displays as a right-bracket (]).
<c< th=""><th>tl><shift>\</shift></th><th>The control, shifted back-slash (\) generates the sub-value delimiter, a Sub-Value Mark. Displays as a back-slash (\).</th></c<>	tl> <shift>\</shift>	The control, shifted back-slash (\) generates the sub-value delimiter, a Sub-Value Mark. Displays as a back-slash (\).

Entering Attribute Marks causes a new EDIT line to be generated since attributes indicate "end of line." (See "ADDING NULL LINES.")

The Value and Sub-Value Marks are held within an attribute and display on the EDIT line as described.

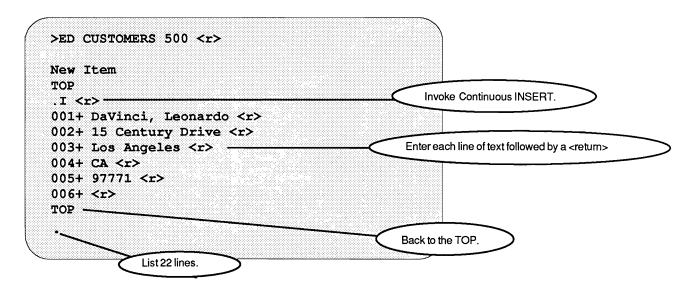
4.2 Adding New Items To A File

This example creates an item in the CUSTOMERS file using the following item layout:

```
Item-Id is a number: 100, 500 etc.
Attribute 1 : Last Name, First Name
Attribute 2 : Address
Attribute 3 : City
Attribute 4 : State Abbreviation (2 characters)
Attribute 5 : Zip
```

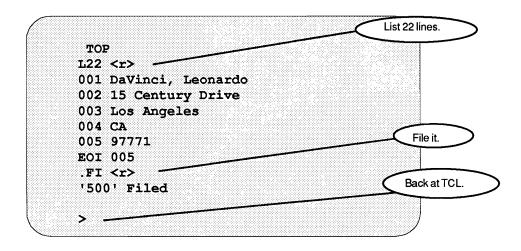
Add customer 500 to the CUSTOMERS file. Remember, INSERT adds lines immediately following the current line position.

Invoke EDIT:



This is an example of a continuous INSERT. INSERT continues until the return key is pressed at the first position of a line. The return key pressed at line 006 does an automatic Flip and resets the pointer to the TOP of the item. This occurs only in NEW items. Notice that the lines are being automatically numbered sequentially.

Review this item:



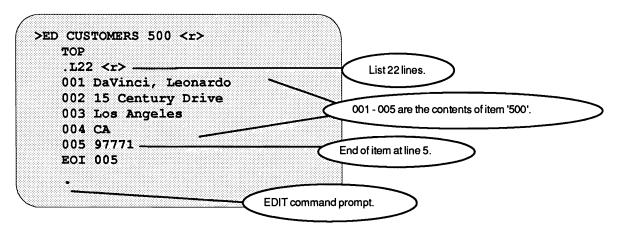
The FILE (FI) command saves the item to the file and exits the Editor. (See "SAVING YOUR WORK.")

If the EXIT (EX) command had been typed, EDIT would have exited the item before it could have been saved.

4.3 Adding Lines to an Existing Item

Now, you need to know how to insert new lines in an existing item. Again, INSERT adds lines immediately following the current line position.

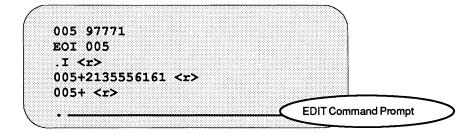
At the risk of sounding redundant, invoke EDIT again for item 500 and review it. (Ask to list 22 lines.)



There are only 5 lines in this example. Even though the list requested is 22 lines, listing stops at the bottom of the item. "EOI" stands for "end-of-item."

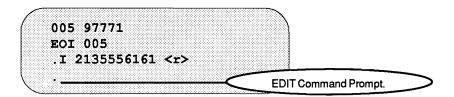
Add a phone number on line 006. In other words, INSERT a line after 005. Since the pointer is already on line 005, there is no need to goto the line.

Using continuous INSERT:



Sequential numbering during INSERT occurs only when a new item is being created. In all other cases, the current line number is repeated for each prompt. The "005+" prompt means "to be INSERTed after line 5".

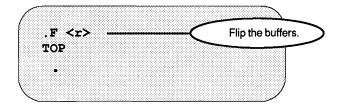
In this example, only one line is added. An alternative in this case is to use the single line INSERT:



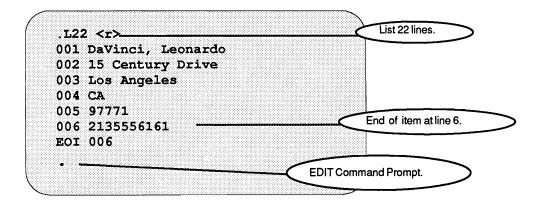
This method is a little quicker way of adding 1 line.

The phone number is now line on 6.

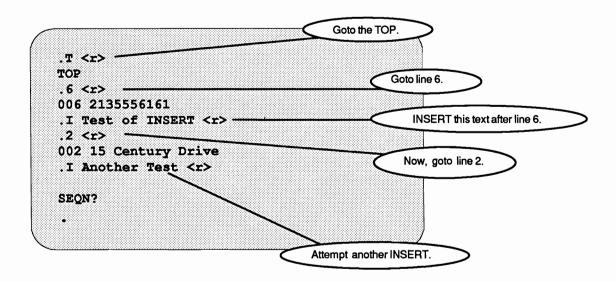
After entering any series of changes to an item, the command (F) must be invoked. (F) or "Flip" includes the last changes and renumbers the added lines in the proper sequence. (See "SAVING YOUR WORK.")



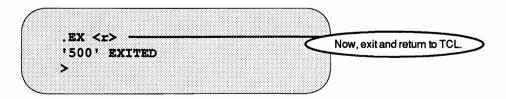
Review the item.



The sequence of INSERTs, as in all changes, must be from the TOP of the item down. Changes must be made in ascending sequence of line numbers. If you enter out of sequence, the "SEQN?" error message appears. (F)lipping the buffer lets you start from the top down again.



The second INSERT was performed at line 002 after inserting at line 006. The (F)lip command was not invoked. No way Jose!



4.4 Adding Null Lines

If you are using EDIT for documentation, or creating data definition items, you may need to skip lines. This is referred to as imbedding a null line.

A null line is an empty line. However, INSERT inherently does not allow null lines to be entered because entering <return> at the FIRST position of a line terminates the INSERT session.

There are two methods for imbedding null line while in INSERT.

4.4.1 Null Lines, Method 1

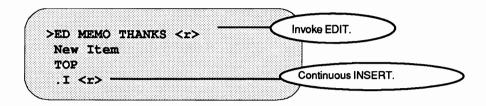
Choose any single character as a line holder. Make sure that this is a unique character, something you don't find in the rest of the item.

The REPLACE LINES (R) command is used to replace these characters with a null, hence creating an empty line.

The Commands involved are:

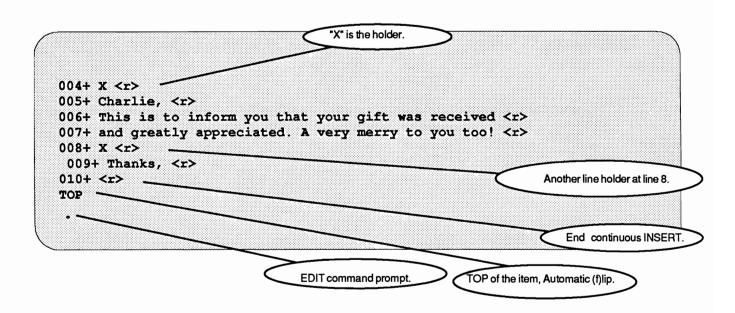
į	Command	<u>Description</u>
į	I	Continuous INSERT. See the section entitled "ADDING LINES".
	R/oldstring/newstring/	REPLACE the first occurrence of oldstring on a line with newstring. (See "REPLACING", Page ##.)
	F	Flip buffers. Reflect the last series of changes to the work item without writing to the file. This occurs automatically at the termination of INSERT in a new item. (See "SAVING YOUR WORK", Page ##.)

Create the new item THANKS in the MEMO file.



Enter the following text line by line from the terminal keyboard.

A NULL line is needed. If the <return> key is pressed, INSERT will end. For this examble, use the character "X" as a line holder.



Review the item.

```
List 22 lines.

.L22 <r>
001 Memo 01/01/87

002 To: Charlie

003 From: Me

004 X

005 Charlie,

006 This is to inform you that your gift was received

007 and greatly appreciated. A very merry to you too!

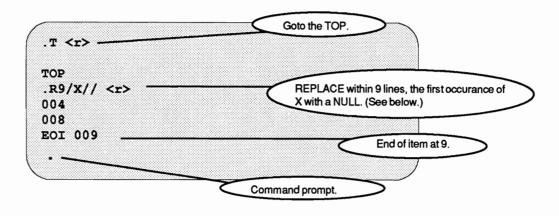
008 X

009 Thanks,

EOI 009

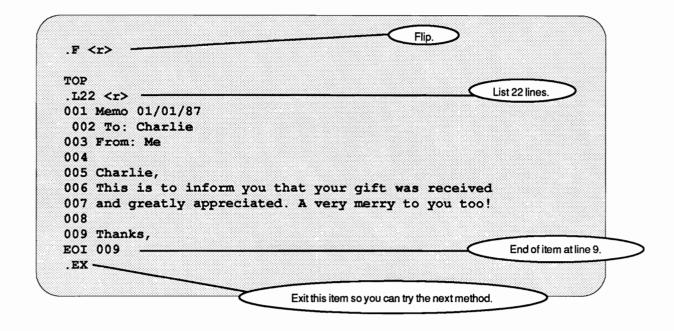
End of item at line 9.
```

Now, use "R" (REPLACE) to remove the X's and place NULLS on the line as follows:



Both lines 4 and 8 contained "X." Since "X" was the only character on these lines, the lines were set to NULL. Flip the buffer and review the changes. You have to do this because the initial INSERT session is ended. This item is no longer considered new.

Note: In the REPLACE command, two consecutive delimiters (//) indicate NULL. (See "REPLACING.")



4.4.2 Null Lines, Method 2

The next method of inserting null lines is performed by imbedding actual attribute marks within the newly inserted text.

Remember, attributes are the characters that the system uses to indicate the end of a line.

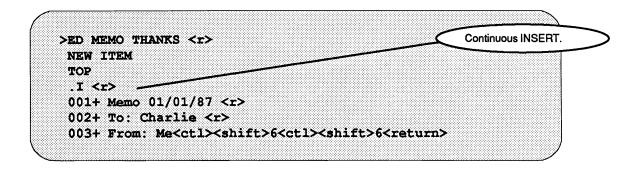
Attribute marks are generated from the keyboard by pressing the <ctl> key simultaneously with the uparrow (^) character. On most keyboards, the "^" is a "<shift>6."

To generate an attribute mark from the keyboard, press:

<ctl><shift>6. (simultaneously)

A NULL line can be generated as follows,

Start over using Method 2.



The two attribute marks after the word "me" are imbedded to delimit a NULL line. Attributes appear on the display as up-arrows (^).

The line displays on the terminal as follows:

003+ From: Me^^ <r>

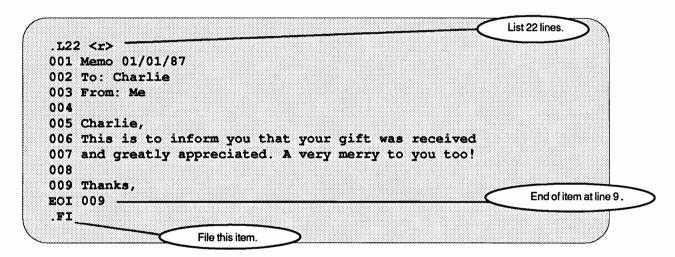
At this moment, line numbering is out of sequence, since line 3 as displayed actually contains 2 attributes.

Continue entering.

```
004+ Charlie, <r>
005+ This is to inform you that your gift was received <r>
007+ and greatly appreciated. A very merry to you!^^ <r>
008+ Thanks, <r>
009+ <r>
TOP

Another NULL line is added in the same way with two attribute marks.
```

A review of the item shows that all attributes are now at their correct line positions



4.5 Setting Tab Stops

It is often necessary to align input at predetermined margins. This is accomplished by setting tab stops. Tab Stops are set by the (TB) command.

į	Command	Description
į	TBnnn	Set tab stops. Each n represents the columnar position where the tab stop is placed.
į	Related Command;	
	c	Display columnar positions. Useful for determining tab stop columnar positions.

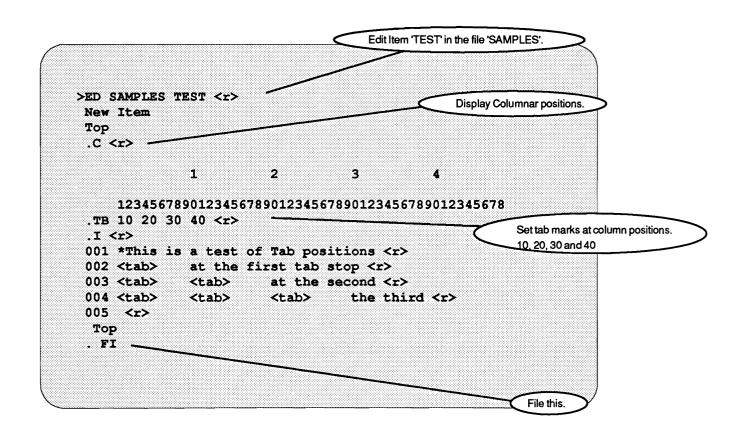
During INSERT the <tab> key (<ctl>I on keyboards without a <tab>) positions the cursor for entry at the next tab position. Pressing the <tab> key imbeds spaces to the next stop rather than control characters as do word processors.

Setting tab stops is quite useful when indenting BASIC source statements.

Note: Tab stops are remembered only within the same EDIT session, whether Editing a single item or a series of items from an Item-List.

Each time EDIT is invoked, tab stops must be redefined.

Try this example:



If you wish, use EDIT as described above and add the following "Sample Items" to their respective files. These sample items will be used in the remaining chapters.

Sample Items

Items to be added to the file CUSTOMERS:

ID:100	ID:200
001 Hornblower, Horatio	001 Bunny, Bugs
002 1110-1 W 57th	002 0-0 Hole-in-the-ground
003 New York	003 Brooklyn
004 NY	004 NY
005 10019	005 10101
ID: 300	ID: 400
001 Participle, Dangle	001 Gardner, Chauncy
002 3 Dat Street	002 12 Main St
003 Grammar City	003 Washington
004 PA	004 DC
005 12345	005 00212
ID: 500	ID: 700
001 Da Vinci, Leonardo	001 Phink, Clyde
002 15 Century Drive	002 220 Culver
003 Los Angeles	003 Irvine
004 CA	004 CA
005 97771	005 97215

ID: 1000

004 CA 005 97000

001 Fudd, Elmer 002 30 Wabbit Way 003 Wedondo Beach

Add to the file MEMO:

```
ID: THANKS

001 Memo 01/01/87

002 To: Charlie
003 From: Me
004
005 Charlie,
006 This is to inform you that your gift was received
007 and greatly appreciated. A very merry to you too!
008
009 Thanks,
```

Add to the file SAMPLES:

```
ID: ATEST

O01 This is the first line.

O02 This is the second line.

O03 This is the third line.

O04 This is the fourth line.

O05 This is the fifth line.

O06 This is the sixth line.

ID: ANOTHERTEST

O01 This is an example of a wildcard one designated one of a wildcard one of a
```

Build data in the sample file.

At TCL enter:

1.	Match the keys and their functions.		
	_ [a.	Generates an Attribute Mark
	<return></return>	b.	Back up 1 character
	<ct1>Q</ct1>	c.	<escape> displays as this</escape>
	_ <ctl><shift>6</shift></ctl>	d.	X-ON
	^	е.	Same as <backspace></backspace>
	_ <backspace></backspace>	f.	Advance to next tab stop
	_ <ctl>W</ctl>	g.	Re-enter entire line
	_ <ctl>X</ctl>	h.	X-OFF
	_ \	i.	Terminates an INSERT session
	_]	j.	Attribute Mark displays as this
	_ <ct1>S</ct1>	k.	Value Mark displays as this
	<ctl>I</ctl>	1.	Back up input by 1 word
	_ <ctl>H</ctl>	m.	Sub-Value Mark displays as this
2.	Fill in the commands to create the ID: EXERCISE4 001 This is a test of 002 how much you have 003 learned in the ADD LINES 004 Section of The Editor 005 Workbook. The end-of-item is at 005. > NEW ITEM TOP . 001+ 002+ 003+ 004+ 005+ 006+ 006+		

45

3.	What command would you use to review the item?				-			
4.	The item ATEST already exists in the SAMPLES file. lines after line 2. Use any text that you wish.	Fill	in	the	blanks	to	add	2
	>							
	001 mb to to 1							
	001 This is line 1. 002 This is line 2.							
	003 This is line 3.							
	004 This is line 4.							
	002 This is line 2.							
	002+							
	002+							
	002+							
	·							
	TOP							
	•							
5.	Fill in the command which saves the item.							
	'TEST' FILED							
	>							
6.	Explain what went wrong.							
	>ED SAMPLES ANOTHERTEST <return></return>							
	Top							
	.5 <return></return>							
	005 This is test line 5 .I INSERT this <return></return>							
	.G1 <return></return>							
	001 This is the first line							
	.I INSRET this also <return></return>							
	SEQN?							
	•							

INSERT is ter line.	rminated by ent	ering a	at position	
What is a lin	ne holder?		·	
Add 2 NULL li	ines after line	4 of the item WE	LCOME in the MEMO file.	
Jsing Method	1, fill in the	appropriate comm	nands.	
>				
TOP				
004 Call mo	 e if you need m	20		
	-	ie.		
004+				
004+				
004+				
•				
mon.				
TOP				
•				
Fill in the	e commands to r	emove the line ho	olders.	
•				
005				
006				
EOI 010				
•				
Ise Method 2	to achieve the	same thing.		
				
TOP				
004 This is	 s line 4			
	2 11116 4			
•				
•				

•	What is the cor	mmand to set ta	ab stops? _				
•	What keys adva	nce input to th	ne next tab	stop?	or		
	The command to	display column	nar position	s is	·		
	Item TABTEST is	s in the SAMPLE	ES file.				
	ID: TABTEST						
	001 Name AM0 002 DUI 003 John 100 004 Mary 150	DUNT DATE DUE 0 01-01	L-87				
	004 Mary 150 005 Sasha 300	0 02-15	5-87				
	Add line 6 for	Jason who owes	3 250 by 06-	01-87.			
	>	1 2	3	4			
	TOP						
	005 Sasha 30	0 03-01	L-87				
	•						
	1234567890123456789012345678901234567890						
	Now set the tab stops and INSERT the line.						
	Now Set the	.ab scops and .	INSERT CHE I	THE.			
	•						
	· 005+						
	005+						
	•						
	TOP						
	101						

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5. Saving Your Work

The FILE SAVE commands cause the EDIT work item to be written to a file on disk. The process is called FILING the item. The work item can be overwrite to the original item or be written to a new item in the same or a different file.

5.1 The Work Item

When EDIT retrieves an item, it works with it in a temporary work area called a buffer or "scratchpad." EDIT actually uses two work buffers. Each takes turns containing the current and changed versions of the item. Think of these as "Work Items."

<u>Co</u>	mman <u>d</u>	<u>Description</u>
F I		Flip buffers. Reflect the last series of changes to the work item without writing to the file. This occurs automatically at the termination of INSERT in a new item.
Re	lated Com	mands;
XF		Cancel all changes made since the last (F)lip. (See "CANCELLING CHANGES.")
х		Cancel the last change.

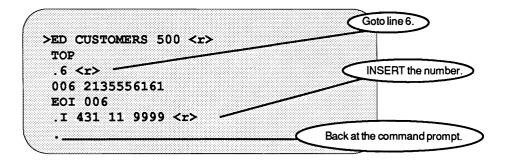
Invoking the F command tells EDIT to include all changes in the work item made since the last (F) was invoked. This is called "flipping" the buffers.

The original item remains unaltered until an (FI) or (FS) command is performed. (See next example.)

Take item 500 on the file CUSTOMERS.

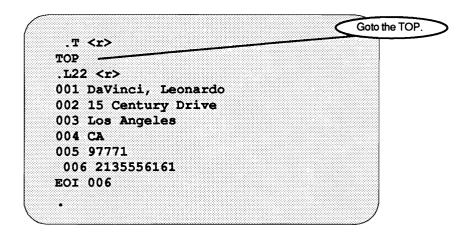
Put a Social Security Number on line 7 of the item.

Invoke EDIT:



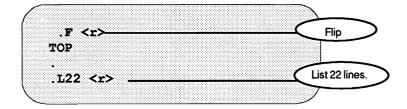
The number 431 11 9999 is now in attribute 7 and should be displayed on line 007.

However, on review, the change is not reflected.

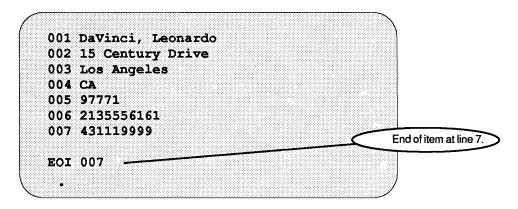


 $The new \ line \ is \ apparently \ missing. \ Actually, the \ change \ hasn't \ been \ included \ in \ the \ active \ work \ item.$

Flip the buffer by entering:



Review the change on the previous item.

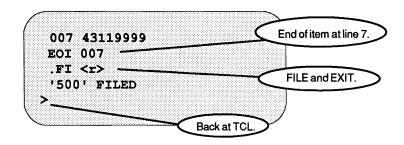


5.2 Saving an Item to the Same Item-id

	Command	Description
	FI	FILE the item and exit EDIT. If an item-list is active, EDIT the next item.
į	FIK	FILE the item, exit EDIT and KILL the list.
	FS	FILE the item, stay in EDIT and go to the TOP of the same item.

Invoke FI to FILE and overwrite the item and EXIT the EDIT process.

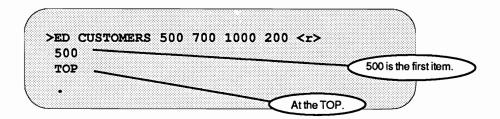
Changes have been made to this item. We want to FILE and EXIT.



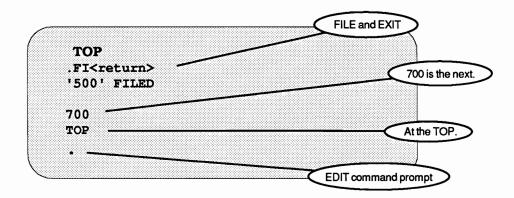
The item is filed and you are returned to TCL.

If an item-list is active, the next item is edited when the (FI) is invoked.

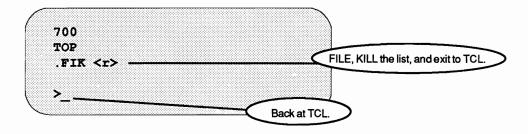
EDIT 4 items in the CUSTOMERS file.



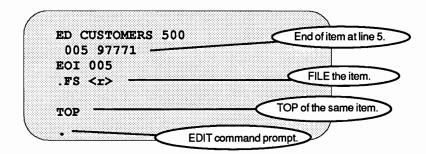
For this example, pretend changes have been made and file the item.



Item '700' is automatically edited. In this case, the rest of the items on the list are to be skipped. FIK saves the current item and KILLs the active item-list, returning control to TCL.



Often, you may want to save your work without terminating the edit session. The FS command allows you to do this. Now try this:



The item has been written back to the file and we are at the TOP of the item, ready for more changes. It's usually a good idea to perform an FS periodically while you work. This insures that all your changes made up to this point are saved. If an EX is invoked unintentionally before you have FILEd the item, all changes would be lost.

5.3 SAVING AN ITEM TO A DIFFERENT ITEM-ID

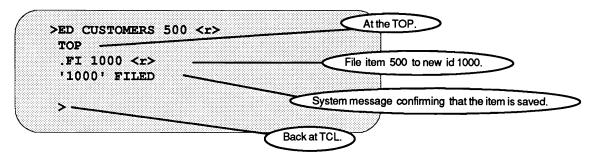
Invoking the FILE SAVE command overwrites by default the original item on file with the edited work item. There are advantages to saving your changes to another item in the same or a different file while leaving the original copy intact. This eliminates the "oops, I didn't want to do that" situation.

The following commands file the item under a new item-id within the same file or in a different file.

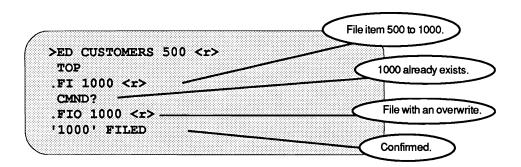
<u>Command</u>	<u>Description</u>
FI{K} item-id	FILE the work item under a new item-id on the same file and exit EDIT. This will not work if the new id already exists on file. The (optional) "K" means KILL any active item-list and return to TCL.
FI{K}(filename item-id	FILE the work item to a new item in a different file and exit EDIT. This will not work if the new item-id already exists. If an item-list is active, EDIT the next item. The (optional) "K" means KILL any active item-list and return to TCL.
FI(K)O item-id	FILE the work item under a new item-id overwriting the new item if it already exists and exit EDIT. If an item-list is active, EDIT the next item. The (optional) "K" means KILL any active item-list and return to TCL.
FI(K)O(filename item-id	FILE the work item under a new item-id in the specified file overwriting if the same item-id already exists in that file, and EXIT. If an item-list is active, EDIT the next item. The (optional) "K" means KILL any active item-list and return to TCL.
FS item-id	FILE the work item to a new item-id on the same file and stay in EDIT. This will not work if the new id already exists on file.
FS(filename item-id	FILE the work item under a new item-id in the specified file and stay in EDIT. This will not work if the new id already exists.
FSO item-id	FILE the work item under the new item-id overwriting the new item if it already exists, and stay in EDIT.
FSO(filename item-id	FILE the work item under a new item-id overwriting the new item on the specified file and stay in EDIT.

When saving to a new file, the item-id specification is optional. If not specified, the original item-id is used by the system. After an FS command, the line pointer is reset to the TOP of the item.

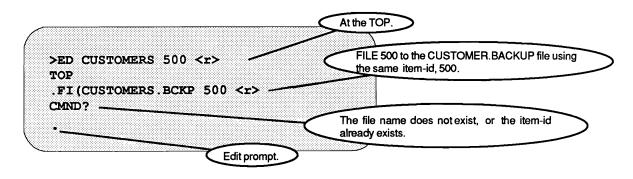
Invoke EDIT for item 500 on the CUSTOMERS file.



Invoke EDIT again:



When the new item already exists, you must use the "0" option to force an overwrite. "CMND?" means the command cannot be processed. This can also happen if you try to save to a file that does not exist.

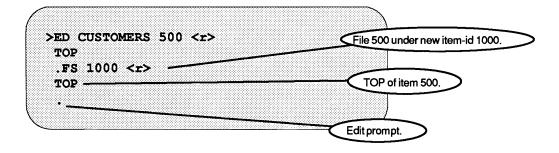


In this case, the file name was misspelled.

Try again.

```
>ED CUSTOMERS 500 <r>
TOP
.FI(CUSTOMERS.BACKUP 500 <r>
'500' FILED
>
```

(FS) works the same way, except that EDIT remains active on the item.



Now the item is ready for changes.

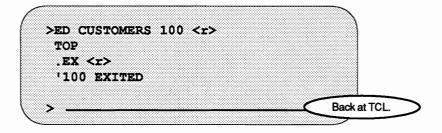
5.4 EXITING WITHOUT SAVING

i	COMMAND	DESCRIPTION
	EX	EXIT the Editor without saving the item. If an item-list is active, EDIT the next item on the list, otherwise return to TCL.
i	EXK	EXIT the Editor without saving the item. KILL any active item-list and return to TCL.

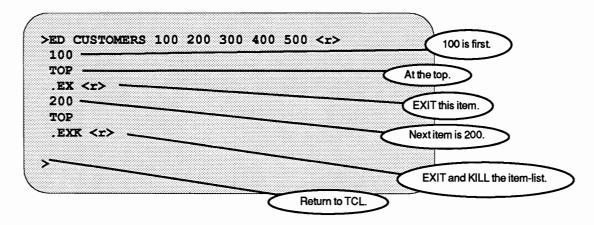
EXITing (EX) an item without saving it is useful to review data non-destructively, or back out of any changes made since your last FILE command.

EDIT is invoked for item 100 on the CUSTOMERS file.

To EXIT without altering anything, enter:



Exiting a single item returns you to TCL. If an item-list is involved, EDIT is automatically invoked on the next item.



Exercise 7

)	1.	Match the command and description.		
)		FSO 600	a.	Flip the work buffers
		FS	b.	FILE to item 600 in the current file and EXIT this item
•		FIK	c.	FILE to item 600 in the file BACKUP
		FI 600		an EXIT this item
		F FS (BACKUP	d.	FILE and overwrite to item 600 in the current file, EXIT this item and KILL
		FS 600	_	any active Item-List
			e.	FILE the item and remain in EDIT
		FIKO 600 FI(BACKUP 600	f.	FILE an Overwrite item 600 in the current file and remain in EDIT
i			g.	FILE to item 600 in the current file and remain in EDIT
ĺ			h.	FILE, EXIT and KILL any active Item- List
			i.	FILE this item using the current item- id to the file BACKUP and remain in EDIT
	2.	Fill in the appropriate commands.		
		EDIT the item ATEST in the SAMPLES file	and r	eview it.
		>		
		TOP		
		001 This is the first line.		
		002 This is the second line		
		003 This is the last line EOI 003		
		•		
		Enter the command to FILE the current i	tem us	ing item-id BACK.ATEST and EXIT.
		'BACK.ATEST' FILED		
		>		

3. Fill in the appropriate commands.

> Back at TCL

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6. Deleting

6.1 Deleting An Item

An entire item is deleted by invoking the FILE DELETE (FD) command.

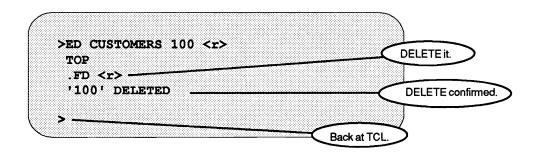
1	Command	<u>Description</u>
 	FD	FILE DELETE. Delete the entire item and exit EDIT. If an item-list is active, EDIT the next item. This command can be invoked from any line within the item.
	FDK	FILE DELETE and KILL any active item-list. DELETE the entire item and exit to TCL. This command can be invoked from any line within the item.

There is a wise old saying, "FD AND DIE". Remember this.

If you realize that the FD was invoked in haste or by mistake, invoke the TCL command RECOVER-FD. This may be of help in some circumstances. (Some implementations do not have RECOVER-FD, instead they ask "are you sure Y/N?" when FD is invoked.

DELETE item 100 from the CUSTOMERS file.

Invoke EDIT:



Oops! Don't want to do this.

Invoke RECOVER-FD from TCL.

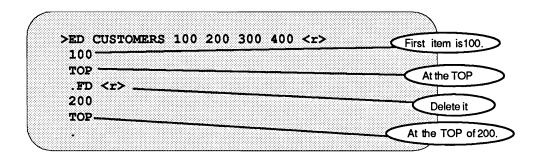
```
>RECOVER-FD <r>
ITEM NAME:100 <r>
'100' FILED
```

BEWARE! If RECOVER-FD is not performed IMMEDIATELY after the FD, or an item-list is active during EDIT, then the item cannot be recovered.

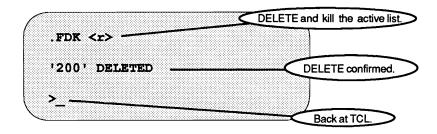
Instead of invoking RECOVER-FD for your mistake, your implementation might have prompted you as in this example:

```
>ED CUSTOMERS 100 <r>
TOP
.FD
Are you sure? Y <r>
100 deleted
.
```

Invoke EDIT for 4 items in the CUSTOMERS file.



DELETE 200, but leave the rest of the list alone.



6.2 Deleting Lines

Lines can be deleted within an item by invoking the DELETE LINE (DE) command. Line deletes can be performed unconditionally or conditionally.

6.2.1 Unconditional Delete

These commands allow you to delete a single line or a series of lines after and including the current line.

ŀ	Command	Description
į	DE	DELETE the current line.
	DE number of lines	DELETE the number of lines after and including the current line.
ļ	Related Command;	
į	F	Flip buffers. Reflect the last series of changes to the work item without writing to the file. (See "SAVING YOUR WORK.")

Examples:

DE Deletes the entire current line of the item.

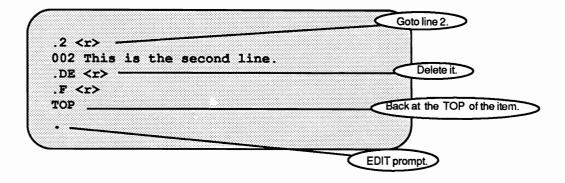
DE5 Deletes the current line plus the 4 following.

Invoke EDIT:

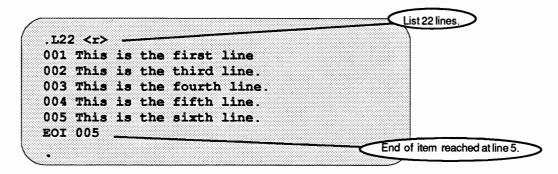
```
>ED SAMPLES ATEST <r>
TOP
List 22 lines.
```

Review the item.

DELETE line 2.

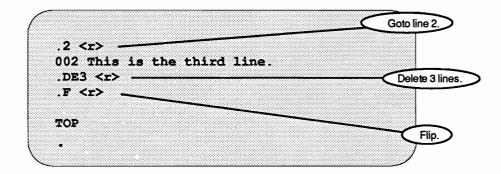


Review the item.



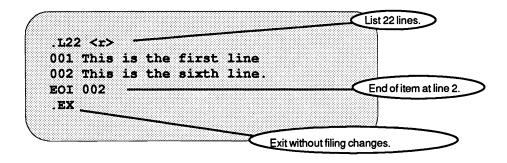
As a result of the flip, The system renumbers all lines of an item consecutively after a DELETE occurs. This changes the relative position of the remaining attributes. In this case, attribute 3 has shifted to the attribute 2 position, 4 to 3, and so on.

DELETE 3 lines after and including line 2.



Note: Due to the previous (DE) at line 2, what was line 3 is now line 2.

Review the item.



Lines 2 through 4 are deleted. Remember, changes are not permanent until a FILE SAVE command (FS or FI) is invoked.

6.2.2 Conditional Delete

This allows you to delete lines based on a search criterion. Line deletion occurs only if the search string is found in the line.

The search can also be restricted to columnar zones. A columnar zone is a segment of the line bounded by beginning and ending columnar positions.

<u>Command</u>	Description
DEn/string	DELETE multiple lines after and including the current line if the string is found. (n) is the number of lines.
DEn/string/zone	DELETE multiple lines after and including the current line if the string is found within a columnar zone. (n) is the number of lines.
Related Command;	
С	Display columns of the line.

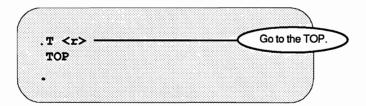
The slash (/) is called a command delimiter. A delimiter separates the pieces of information which make up a command. The delimiter can be any non-numeric character that does not appear in the search string.

Take a look at the item THANKS in the file MEMO.

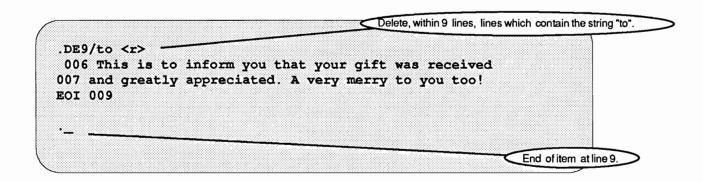
Invoke EDIT and review the item.

```
>ED MEMO THANKS <r>
TOP
.L22 <r>
001 Memo 01/01/87
002 To: Charlie
003 From: Me
004
005 Charlie,
006 This is to inform you that your gift was received
007 and greatly appreciated. A very merry to you too!
008
009 Thanks,
EOI 009
End of item at line 9.
```

Return to the TOP of the item.

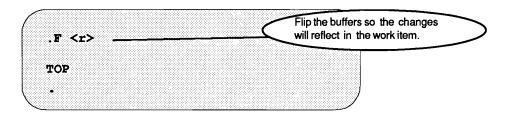


DELETE any line if the string "to" appears in it.

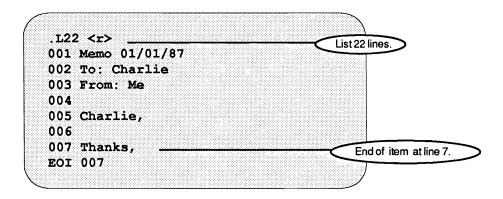


Lines 6 and 7 are deleted. Line 2 remains untouched since "To" does not match "to".

Verify this.



Review the changes.



6.2.3 Deleting Lines Using Zones

You can also specify a search zone as a criterion for deleting a line.

A zone is specified as:

begcolumn-endcolumn

For example:

5-10 specifies a zone between and including columns 5 and 10.

If the beginning column alone is specified, the ending column is the same as the beginning column.

15 specifies a character in column 15.

Examples:

.DE99/THE/20-60 DELETE any line within 99 lines after and including

the current line, if the string "THE" is found between columns 20 and 60, inclusive.

.DE99/A/1 Delete any line within 99 lines after and including

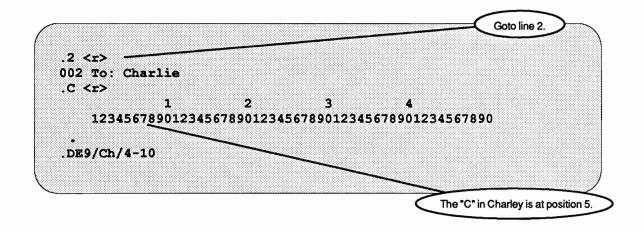
the current line, if there is an "A" in column 1.

The "C" command lays out terminal column positions to be used for the zone specification.

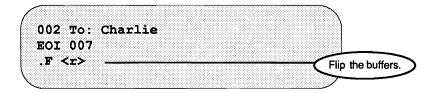
The word "fifth" begins at column 13 and ends at column 17. It resides in the zone 13-17.

1 2 3...
123456789012345678901234567890...

DELETE any line in the item which has the string "Ch" between columns 4 and 10. Use the C command to confirm the column position.

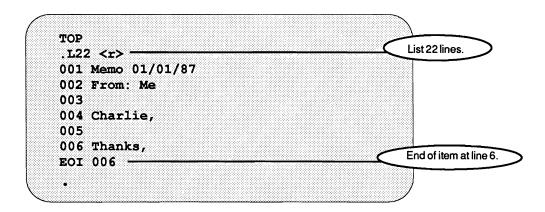


DELETE any lines which have "Ch" between columns 4 and 10.



Line 2 is the only one which matches the criterion of capital "C" followed by a lower case "h" (Ch).

Review the item.



"Charlie," on Line 4 is not affected because its "Ch" is not within the zone, 4 to 10.

6.2.4 Zone Errors

If an invalid character (non-numeric, outside the column limits) is found in the zone specification, the message

COL#?

is displayed.

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-	rcise	·
$\Gamma \times \Gamma$		
上ハン		\mathbf{U}

1.	The command to delete an item while in EDIT is	Exercise 8		
2.	The TCL command to recover the most recently deleted item is			
3.	True or False.			
	a. FILE DELETE must be invoked at the BOTTOM of the item	ı.		
	b. FDK DELETES the current item and returns to TCL regard List is active.	dless if any Item-		
	c. RECOVER-FD can be invoked at any time after the item deleted.	has been		
	d. FD deletes all the items designated in an active Item	n-List.		
4.	Fill in the appropriate commands.			
	>ED SAMPLES ITEM.DELETE.TEST <return> TOP</return>			
	'ITEM.DELETE.TEST' DELETED			
	Now, recover this item.			
	>			
	'ITEM.DELETE.TEST' FILED			
	>			
5.	Fill in the appropriate comands.			
	>ED SAMPLES A B C D E F <return></return>			
	A TOP			
	· 'A' DELETED			
	В			
	TOP			
	'B' DELETED			
	> Back at TCL.			

Exercise 9

1.	Fill in the appropriate command to delete attribute 20.	EXE
	TOP	
	O20 This is a test attribute or line as you wish.	
	TOP	
	•	
2.	Fill in the commands to delete attributes 15 thru 20, inclusive.	
	TOP	
	 015 An attribute of any other name would hold as much data.	
	·	
	TOP	
	•	
3.	This item has 50 attributes. Fill in the commands to delete them	all.
	TOP	
	·	
	TOP	
	•	
4.	The command to display columnar position is	
	The following questions use the item DTEST in the SAMPLES file.	
	ID: DTEST	
	001 This is a test of the 002 line delete. Deleting lines 003 can be tested conditionally or 004 unconditionally. 005 This is the end of the test item.	

5.	Fill in the appropriate commands to EDIT this item and DELETE any line with the string "test" in it.
	>
6.	Which lines are DELETEd?
7.	Enter the command to delete only those lines which have the letter "s" in columns 1 through 4.
	TOP

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7. Locating

7.1 Locate the First Occurance of a Text String

Any text string can be located within an item by invoking the LOCATE (L) command (not to be confused with the (L)ist command).

LOCATE is invoked as follows:

	Command	Description
	L/string	LOCATE the first occurrence of the string. LOCATE continues until the string is found or the bottom of the item is reached.
	Related Command:	
Ī	A	Again. Repeats the last LOCATE command.

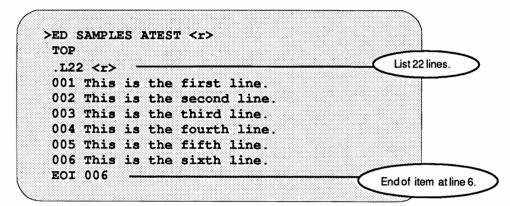
The slash (/) is called a command delimiter. The presence of the delimiter after the Lindicates that this is a LOCATE and not a LIST command. A delimiter separates the pieces of information which make up a command. The delimiter can be any non-numeric character which does not appear in the search string.

LOCATE begins from the line just following the current line. The line pointer is incremented to the position of the last line in the search.

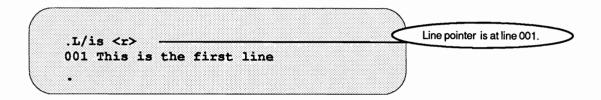
Examples:

L/fifth Search for the first occurance of "fifth"
 L/this Search for the first occurrence of the string "this".
 L*/ Search for the first occurance of '/'. Notice the delimiter is an '*'.

Invoke EDIT and review the item.

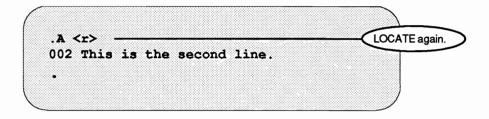


LOCATE the first occurrence of the string "is".



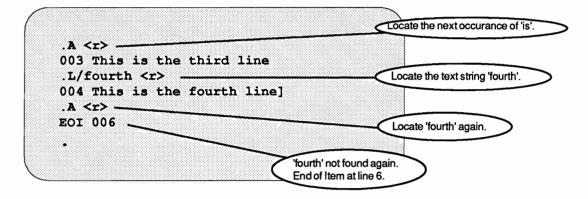
The first occurrence of "is" is found on line 001.

Do it again.



The next occurrence is found on line 2.

The (A) command will locate the string 'is' until a new (L)OCATE is invoked.



7.2 Locating the First Occurance In Multiple Lines

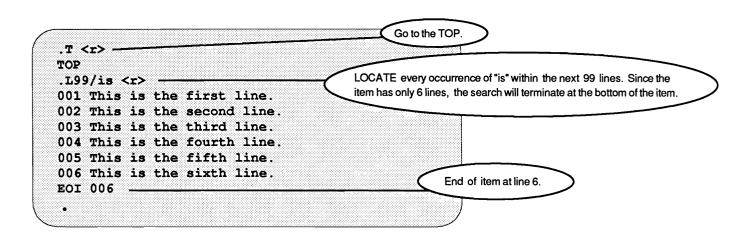
Ln/string

LOCATE each occurrence of the string on multiple lines, following the current line. (n) is the number of lines to search.

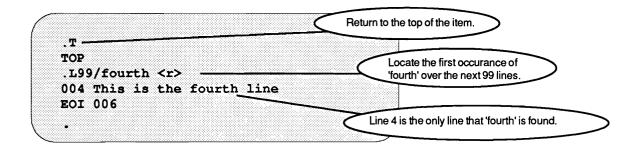
Related Command:

A Again. Repeats the last LOCATE command.

Show every occurrence of "is" in ATEST.



Every line in this item is displayed since each line contains the search string 'is.' The current line is now 6.



7.3 Locate Within Zones

The search can also be restricted to columnar zones. A columnar zone is a segment of the line bounded by beginning and ending columnar positions.

<u>Command</u>	<u>Description</u>
L/string/zone	LOCATE the first occurrence of the string within the specified columnar zone.
Ln/string/zone	LOCATE each occurrence of the string, within column boundaries, on multiple lines, following the current line. (n) is the number of lines to search.
Related Command;	
A	LOCATE again. Repeat the last LOCATE command.
C	Display columns of the line.

The line pointer is incremented to the position of the last line of the search.

The delimiter (/) can be any non-numeric character that does not appear in the search string.

The zone is specified as a range of columnar positions:

begcolumn-endcolumn

5-10 specifies a zone between and including columns 5 and 10.

Example:

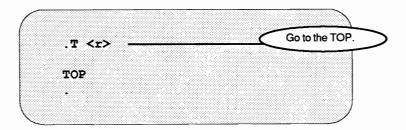
.L/THE/20-60 LOCATE the line with the first occurrence of "THE" if it appears between columns 20 and 60, inclusive.
 .L99/A/1 LOCATE within the next 99 lines all occurrences of an "A" in column 1.

The C command causes a display of terminal column positions to be used for any zone specification.

```
.C <r>
1 2 3...
123456789012345678901234567890..
```

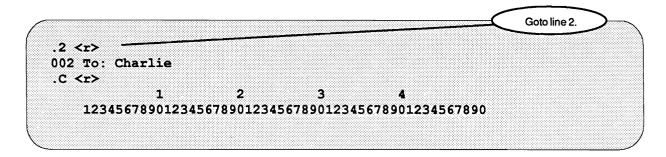
Invoke EDIT and review the item.

Return to the TOP of the item.

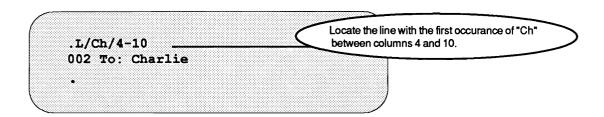


Try locating a text string using a zone specification. Search for the first occurrence of the string "Ch" between columns 4 and 10.

Use the (C) command to confirm the column positions you want to search.



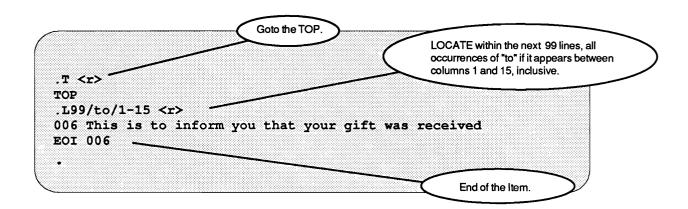
The "C" command shows that "C" in Charlie is at columnar position 5.



Line 2 has the first occurrence of Ch within the specified search zone.

Now, LOCATE all occurrences of the string "to" between columns 1 and 15.

Return to the TOP of the item.



The search continues until 99 lines are searched or the bottom of the item is reached. Searches in Release "R83" implementations are case sensitive. Line 002, "To: Charlie" was not included because "to" does not match "To". This may not be true in your implementation. Try this and see what happens.

7.4 Wildcard Searches

There may be situations where you need to LOCATE a string that has a series of "don't care" characters imbedded. For example, you may wish to search for the first occurrence of a 5 character string which begins with an "A" and ends with an "N".

This is designated by the command:

L/A^^N

LOCATE the first occurrence of "A", 3 "don't care" characters, and an "N".

In this case, any line with "AGAIN," "AROUND," etc. will satisfy the LOCATE request.

The caret "^" is a "wildcard" search character. Use it when you only care if a character is there or not, but you don't care what the value is.

The caret "^" is generated by a <shift>6 from most keyboards. Do not confuse this with the <ctl><Shift>6 (attribute mark).

WILDCARD searches are very useful when trying to LOCATE <ctl> characters in a line. These <ctl> characters display as periods "." and visually cannot be distinguished from actual periods.

If you need to LOCATE the caret "A" as an actual part of the text, the wildcard search must be turned off.

The command to turn off wildcard searches is;

Command

Description

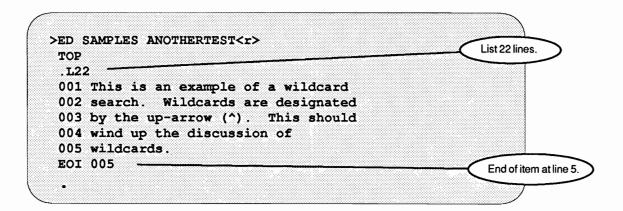
۸

Toggle (turn off and on) wildcard search. This is the up-arrow.

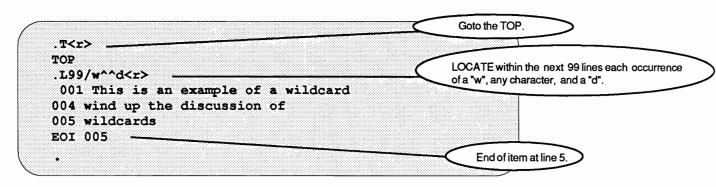
Upon invocation of EDIT, the wildcard search is always active by default.

EDIT item ANOTHERTEST in the file SAMPLES.

Invoke EDIT and review the item.

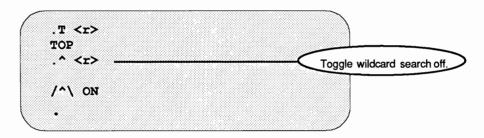


Go back to the TOP and search for any occurrence of a "w" followed by 2 characters and a "d".



Lines 1, 4 and 5 meet the criteria. Notice that lines 1 and 5 matched on the word "wildcard," while line 4 matched on "wind."

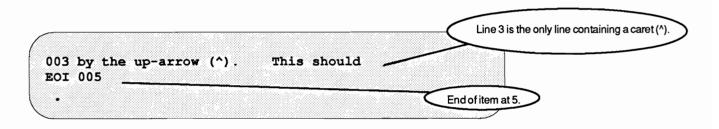
Now, return to the TOP and search for an actual caret "^".



This message means that the caret "^" is now "ON" as a character and not a wildcard.

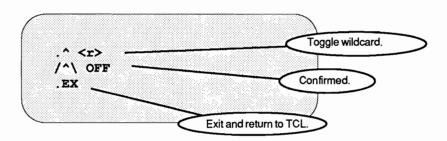
.L99/^<return>

LOCATE within the next 99 lines each occurrence of the string "(^)".



The string "(^)" is LOCATEd on line 3.

Now, toggle the wildcard search back on by turning the "^" "OFF" as a character.



Exercise 10

1.	Fill in the command to LOCATE the first occurrence of "HELLO".
	TOP
	What is the command to repeat the last LOCATE?
	What is the command to repeat the last LOCATE?
	•
2.	Fill in the command to LOCATE all occurrences of "123" within an item of 120 attributes.
	TOP
	What is the current line at the end of the LOCATE?
3.	Fill in the command to LOCATE "ABC" in the ext 20 lines.
	•
4.	For the same item with 120 lines, fill in the command to LOCATE the first occurrence of the letter "X" in column 1.
	TOP
	·
5.	Fill in the command to LOCATE all occurrences of "XYZ" in columns 1 through 10.
	•
6.	In an item that has 200 lines, fill in the commands to LOCATE all occurrences of the character up-arrow (^).
	TOP
	· /^\ ON
	•

Exercise 10 - Page 2

7.	Match the command and description.		
	L/WE	a.	Toggle WILDCARD search.
	L99/XYZ/3-10	b.	LOCATE the first occurrence of a slash (/).
	_ A	c.	LOCATE the first occurrence of "AN" followed by any character.
	_ L/L/20	d.	LOCATE the first occurrence of any
	L*/ L99/*	u.	character, followed by an "A", followed by any character in columnar positions 1 through 3.
	L/^A^/1-3	e.	LOCATE all occurrences of an asterisk (*) in the next 99 lines.
	L/AN^	f.	Repeat the last LOCATE.
		g.	LOCATE all occurrences of "XYZ" between columns 3 and 10 in the next 99 lines.
		h.	LOCATE the first occurrence of "WE".

i.

column 20.

LOCATE the first occurrence of "L" in

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8. Replacing

The process of revising existing lines is invoked by the command (R) REPLACE LINES.

REPLACE can be performed on either an entire line or portions of a line.

In addition, REPLACE allows you to change a single line or multiple lines after and including the current line.

	<u>Command</u>	Description
	R	REPLACE the entire current line.
	R number of lines	REPLACE in entirety the number of lines after and including the current line.
	Related Command:	
į	F	Flip buffers. Reflect the last series of changes to the work item without writing to the file. (See "Saving Your Work.")

Examples:

R REPLACE the entire current line of the item.

REPLACE, in entirety, 5 lines including the current line in and the 4 following.

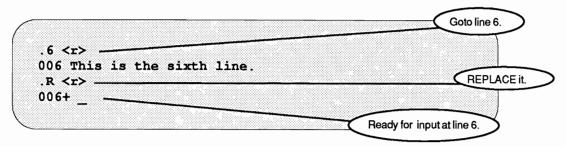
When command R is invoked, EDIT prompts for input of the entire line. As in INSERT, the prompt character is the plus sign (+).

Invoke EDIT and review the item:

```
>ED SAMPLES ATEST <r>
TOP
.L22 <r>
001 This is the first line
002 This is the second line.
003 This is the third line.
004 This is the fourth line.
005 This is the fifth line.
006 This is the sixth line.
EOI 006

End of item reached at line 6.
```

REPLACE line 6.

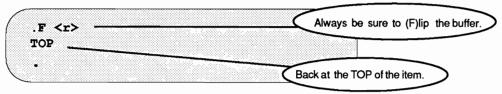


EDIT prompts with the line number (006) and the plus sign to indicate input is now expected.

Now, enter the following:

```
006+ This is the last line. <r>
```

Flip the buffer to reflect the change.



Review the item.

```
List 22 lines.

001 This is the first line.

002 This is the second line.

003 This is the third line.

004 This is the fourth line.

005 This is the fifth line.

006 This is the last line.

EOI 006

End of item reached at line 6.
```

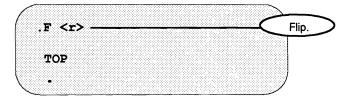
Next, REPLACE 4 lines after and including line 2.

```
Goto line 2.

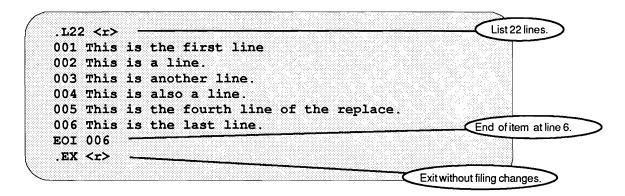
.2 <r>
002 This is the second line.

.R4 <r>
002+ This is a line. <r>
003+ This is another line. <r>
004+ This is also a line. <r>
005+ This is the 4th line of the replace. <r>
.
```

Flip the buffer to reflect the changes.



Review the item.



Lines 2 through 5 are REPLACED. Remember, changes are not permanent until a FILE SAVE command (FS or FI) is invoked.

8.2 Replacing Portions Of A Line

This allows you to search for an existing text string and REPLACE it with a new text string. Replacement occurs only if the search string is found.

The search can also be restricted to columnar zones. A columnar zone is a segment of the line bounded by beginning and ending column positions.

i	Command	<u>Description</u>
	R/oldstring/newstring/	REPLACE the first occurrence of oldstring with newstring on the current line.
	Rn/oldstring/newstring/	REPLACE within the specified number of lines (n) after and including the current line, the first occurrence per line of oldstring with newstring.
	Related Command	
Ī	F	Flip buffers. Reflect the last series of changes to the work item without writing to the file. (See "SAVING YOUR WORK.")

The slash (/) is called a command delimiter. A delimiter separates the pieces of information which make up a command. The delimiter can be any non-numeric character that does not appear in the search string.

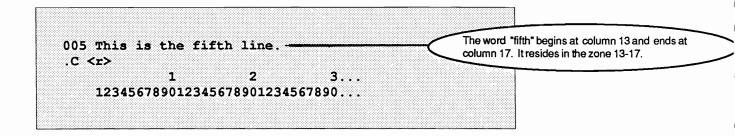
Examples:

.R99/THE/THOSE REPLACE, within the next 99 lines, the first occurrence of "THE" with "THOSE" on each line.

.R99/FIRST/LAST REPLACE, within the next 99 lines, the first occurence of "FIRST" with "LAST" on each line.

.R!/!! REPLACE, on the current line, the first occurance of a slash '/' with null. Notice the delimiter is the exclamation point '!'.

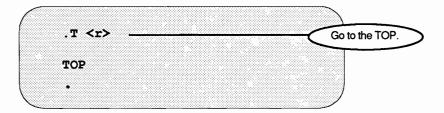
The 'C' command displays terminal column positions to be used for the range, as in this example:



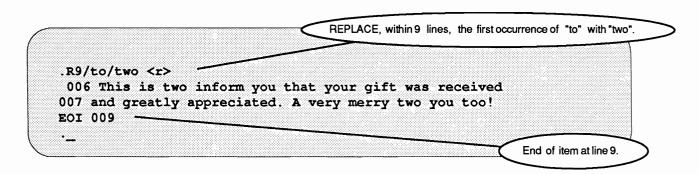
EDIT the item 'THANKS' in the file 'MEMO' and review the item.

```
>ED MEMO THANKS <r>
TOP
.L22 <r>
001 Memo 01/01/87
002 To: Charlie
003 From: Me
004
005 Charlie,
006 This is to inform you that your gift was received
007 and greatly appreciated. A very merry to you too!
008
009 Thanks,
EOI 009
End of item at line 9.
```

Return to the TOP of the item.

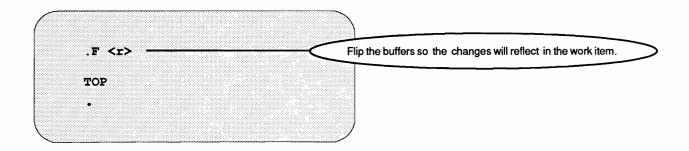


REPLACE on every line in the item, the first occurrence of "to" with "two".



Lines 6 and 7 are REPLACEd. Line 2 remains untouched since "To" does not match "to". The "too!" on line 7 is the second occurrence of "to" on that line and is therefore unaffected.

Verify.



Review the changes.

```
List 22 lines.

Old Memo 01/01/87

Old To: Charlie

Old This is two inform you that your gift was received

Old This is two inform you that your gift was received

Old This is two inform you that your gift was received

Old This is two inform you that your gift was received

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Old This is two inform you that your gift was received

Old This is two inform you that your gift was received
```

8.3 Replacing Using Zones

R/oldstring/newstring/zone

REPLACE, within the zone limits, the first occurrence of oldstring with newstring on the current line.

Rn/oldstring/newstring/zone

REPLACE, within the zone limits, the first occurrence of oldstring with newstring on multiple lines. (n) is the number of lines to search.

Related Command;

C

Display columns of the line.

A zone is specified as: begcolumn-endcolumn

If the begcolumn is the only zone specification, the endcolumn is the same as the begcolumn.

For example: 5-10 specifies a zone between and including columns 5 and 10.

5 specifies the zone as column 5 only.

Examples:

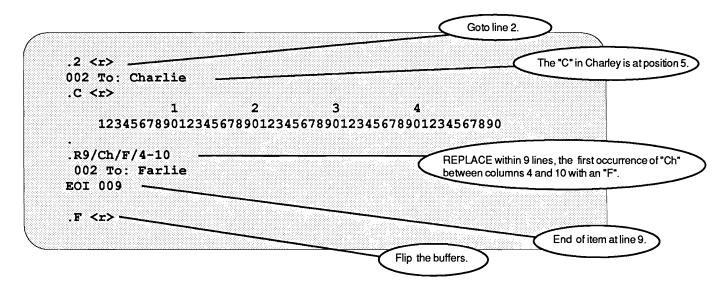
.R99/A/X/1 REPLACE, within the next 99 lines, each occurrence of "A" in column 1 with "X".

.R99/S/ES/3-7 REPLACE, within the next 99 lines, each occurrence of "S" in colums 3 through 7

with "ES."

Replace on every line the first occurrence of "Ch" between columns 4 and 10 with an "F".

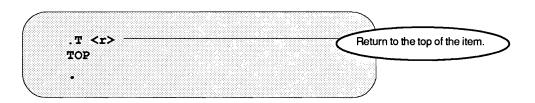
Use the C command to confirm the column positions to search.



Line 2 is the only one which matches the criterion.

Review the item.

"Charlie," on Line 5 is not affected because its "Ch" is not within the zone, 4 to 10.



8.4 Universal Replace

Each of the above REPLACE (R) commands replaces only the FIRST occurrence of a string on a given line. If a string appears more than once on the same line, the command must be invoked repeatedly to change each occurrence. The UNIVERSAL REPLACE command eliminates the need to do this.

The UNIVERSAL REPLACE is the RU command.

<u>Command</u>	<u>Description</u>
RU/oldstring/newstring/	REPLACE all occurrences of oldstring with newstring on the current line.
RUn/oldstring/newstring/	REPLACE all occurrences of oldstring with newstring on multiple lines after and including the current line. (n) is the number of lines.

Example: .RU999/X/+ REPLACE every occurrence of "X" with "+" within 999 lines, starting with the current line. This is effectively a global search and replace.

The UNIVERSAL REPLACE replaces EVERY occurrence of the string on a line, NOT just the first occurrence.

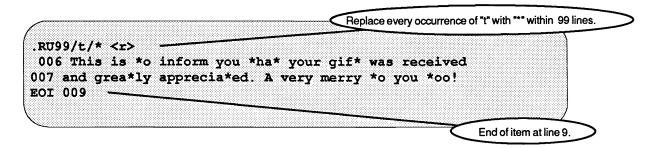
Now try this. REPLACE every occurrence of a lower case "t" with an asterisk "*".

Review the item.

```
TOP
.L22 <r>
001 Memo 01/01/87
002 To: Farlie
003 From: Me
004
005 Charlie,
006 This is two inform you that your gift was received
007 and greatly appreciated. A very merry two you too!
008
009 Thanks,
EOI 009

Endofitem at line 9
```

Notice that all the previous changes are still present.

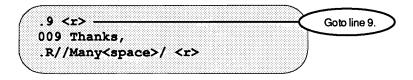


Notice that the upper case T's are not affected.

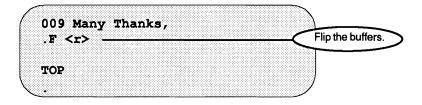
8.5 Replacing At The Beginning Of A Line (Prefixing)

Sometimes, it is necessary to "insert" text at the beginning of a line.

For example: Insert the word "Many" at the beginning of line 9 so it will say "Many Thanks".



Two consecutive delimiters (//) indicate a null. This says to replace the first null with "Many" followed by a space. Notice that a space is imbedded after the word "Many" so that it will be separate from "Thanks,". The last delimiter is necessary to indicate the trailing blank, otherwise it would be stripped.

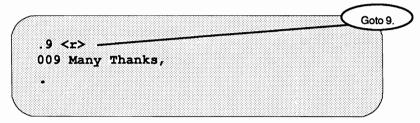


8.6 Replacing At The End Of A Line (Appending)

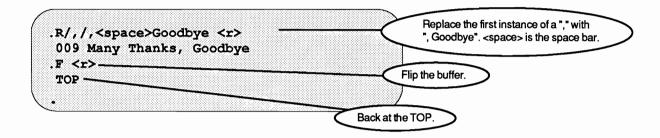
Sometimes it is necessary to add text to the end of an existing line. Two of the three methods to accomplish this are discussed here. The third method is called the Append Line (AL) command, and can only be used if your implementation allows it. Check your manuals for the exact syntax.

8.6.1 Method 1

On line 009, add the word "Goodbye".



Find a unique text string at the end of the line. In this case, a comma (,) ends the line.



8.6.2 Method 2

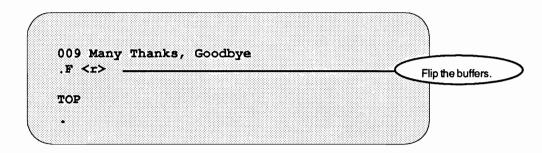
Another method can be used if the line is long, and there are no obviously unique text strings.

The End of Line can be thought of as a long string of blanks even though the system does not actually store the blanks. Replace a string of blanks with the text you wish to add. Be careful to make sure you specify a string of blanks longer than what is already imbedded in the line.

Use the C command to display column positions and determine the number of repeated characters within a line.

.R/<space><space><space>/<space>Goodbye

Replace the first occurrence of 4 blanks with "Goodbye". Notice that the space is imbedded at the beginning of the newstring "Goodbye".

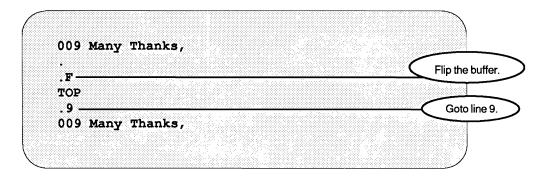


8.7 Truncating A Line

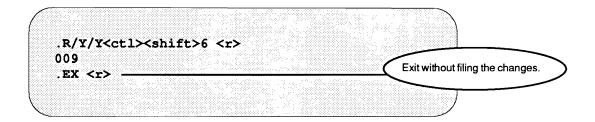
A line can be truncated (shortened) by ending the REPLACE string with an attribute mark (<ctl><shift>6).

Truncate line 9 from the previous example. Truncate the line immediately following the comma (,).

REPLACE the first comma "," with a "," followed by an attribute mark. The attribute mark appears on the terminal as an up-arrow ($^{\circ}$). (R/,/, $^{\circ}$) This will delete everything after the ",".



Now, let's truncate the line after 'many':



Depending on which implementation you are using, this command will work differently. For example, on Ultimate this will break the line into 2 attributes rather than truncating.

8.8 Wildcard Replaces

There may be situations where you need to replace a string that has a series of "don't care" characters imbedded. For example, you may wish to search for the first occurrence of a 5 character string which begins with an "A" and ends with an "N" and replace it with a NULL.

This is designated by the command,

R/A^^N//

On the current line, REPLACE the first occurrence of "A", 3 "don't care" characters, followed by an "N" with NULL In this case, any line with "AGAIN", "AROUND", etc., will satisfy the REPLACE request.

The up-arrow (^) is a "wildcard" search character. Use it when you want to know if a character is there or not, but you don't care what the value is.

The up-arrow (^) is generated by a <shift>6 from most keyboards. Do not confuse this with the <ctl><Shift>6 (attribute mark).

WILDCARD searches are very useful when trying to REPLACE <ctl> characters in a line. These <ctl> characters display as periods (.) and visually cannot be distinguished from actual periods.

If you need to locate the up-arrow (^) as an actual part of the text, the wildcard search must be turned off.

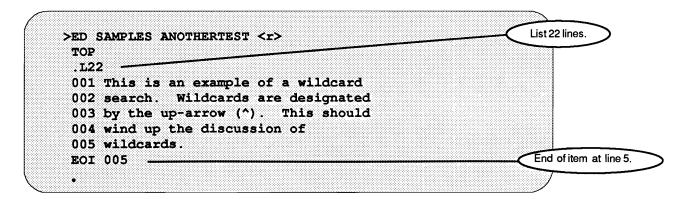
The command to turn off wildcard searches is:

Command	<u>Description</u>
^	Toggle (turn off and on) wildcard search. This is the up-arrow.

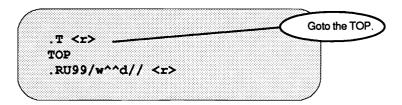
The wildcard REPLACE is active upon invocation of EDIT.

EDIT item ANOTHERTEST in the file SAMPLES.

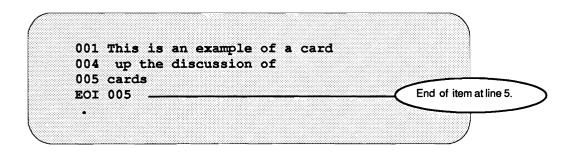
Invoke EDIT and review the item.



Go back to the TOP and REPLACE all occurrences of a "w" followed by 2 characters and a "d" by NULL.

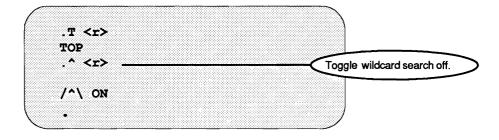


REPLACE within 99 lines, each occurrence of a "w", any character, and a "d" by a NULL.



Lines 1, 4 and 5 meet the criteria. Notice that lines 1 and 5 matched on the word "wildcard", while line 4 matched on "wind".

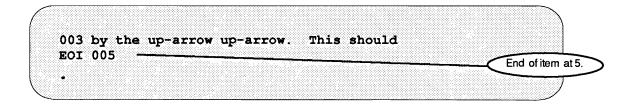
Now, return to the TOP and REPLACE all occurrences of the string "(^)" with the word "up-arrow".



This message means that the "^" is now "ON" as a character and not a wildcard.

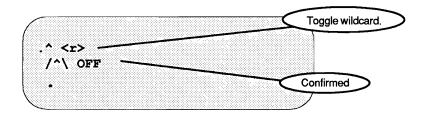
.RU99/(^)/up-arrow<return>

REPLACE within 99 lines each occurrence of the string "(^)" with the word "up-arrow".



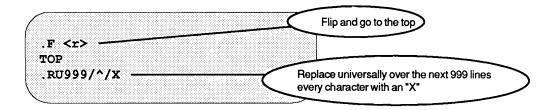
The string "(^)" up-arrow is located on line 3.

Now, toggle the wildcard back on.



The "^" is now "OFF" as a character as is used for wildcard searches once again.

 $Caution: The Wildcard\,Replace\,can\,be\,used\,to\,replace\,every\,character\,in\,an\,item.\,\,Try\,this\,if\,you\,wish,\,but\,don't\,file\,the\,changes.$



Note what happens. (Olly North should have known about this!)

Exercise 11

Using item ATEST in the file SAMPLES:
ID: ATEST
001 This is the first line. 002 This is the second line. 003 This is the third line. 004 This is the fourth line. 005 This is the fifth line. 006 This is the sixth line.
Fill in the commands to replace line 2 entirely by the text string "This is replaced line 2".
>
·
002 This is the second line.
002+
• ————
TOP
•
Fill in the commands to REPLACE all of lines 3, 4, and 5 with "These are the replaced lines". TOP
003+
004+
005+
TOP
On line 6, REPLACE "This is" with "That was".
TOP
006 This is the sixth line.
006 That was the sixth line.
TOP

TOP	
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What is the	command to do this to every occurrence?
TOP	
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m:11	
KILL IN THE	command to REPLACE all occurrences of an "A" in column 10 with an
asterisk (*	command to REPLACE all occurrences of an "A" in column 10 with an
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TOP Fill in the first line. TOP O01 This is	appropriate commands to put the word START before the first word of the first line.
TOP Fill in the first line. TOP O01 This is	appropriate commands to put the word START before the first word of the first line.

	7.	Match the command with its description.		
		Assume these commands are invoked in an item with 50 attributes.		
		R	a.	REPLACE 5 lines.
		R/ABC/CBA/3-6	b.	Toggle WILDCARD replace.
		R/123/321	c.	REPLACE every occurrence of an "X" in columm 10 with an "A".
		R*/*-	d.	REPLACE all occurrences of asterisk
		R99/A/L		(*) with an exclamation (!).
		RU99/*/!	e.	REPLACE the first occurrence of any character followed by an "A" between
		R99/X/A/10		columns 1 and 3, with an "A".
		R5	f.	REPLACE in the current line the first occurrence of "ABC" between columns 3
		R99/^A/A/1-3		and 6, with "CBA".
		^	g.	REPLACE the entire current line.
i			h.	REPLACE in the current line the first occurrence of slash (/) with a dash (-).
			i.	REPLACE on every line the first occurrence of "A" with an "L".

j.

REPLACE on the current line the first

occurrence of "123" with "321".

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9. Merging

9.1 Merging Lines

MERGING LINES (ME) is the process of inserting a copy of a portion of an item following the current line position of the current item.

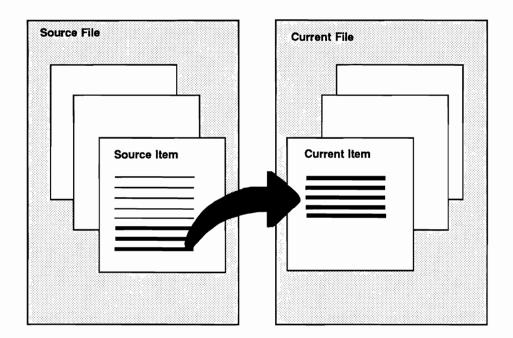
Lines can be MERGEd from the same item or a different item within the current file or from a different file. The destination of a MERGE is always the current item in the current file.

The item presently being EDITed is referred to as the current item.

The file from which the current Item is retrieved is the current file.

The item from which lines are retrieved for the MERGE is referred to as the source item.

The file from which the source item is retrieved is referred to as the source file.



9.2 Merging From The Same File

The source file is the same as the current file.

<u>Command</u>	<u>Description</u>
MEn/item-id/s	MERGE a number of lines (n) from the source item addressed by item-id starting at line (s) in the source item.

All MERGE commands INSERT lines immediately following the current line.

The slash (/) is called a command delimiter. A delimiter separates the pieces of information which make up a command. The delimiter can be any non-numeric character that does not appear in the item-id specification.

In this case, the delimiter cannot be a left parenthesis "(". A left parenthesis is used to designate a merge from a different file.

If either the "number of lines" (n) or the start position (s) is omitted, then a 1 is implied. If "item-id" is omitted, then MERGE occurs from within the current item.

Examples:

ME10//5 MERGE after the current line 10 lines from the current item starting at line 5.

MERGE after the current line 1 line from the current item starting at line 3.

ME99/BOILER/1 MERGE after the current line 99 lines from the item BOILER starting at

line 1 of BOILER.

Create a new item called MERGETEST in the SAMPLES file. MERGETEST will initially be an exact copy of ATEST in the SAMPLES file. The object is to MERGE the entire item ATEST into this new item.

Use item ATEST from file SAMPLES.

ATEST looks like this:

```
ID: ATEST

001 This is the first line

002 This is the second line.

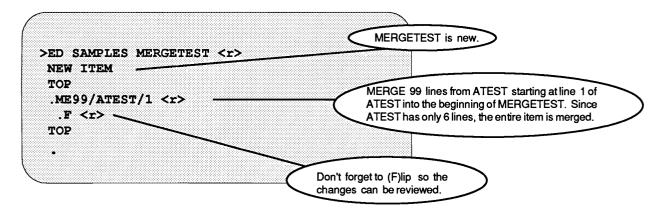
003 This is the third line.

004 This is the fourth line.

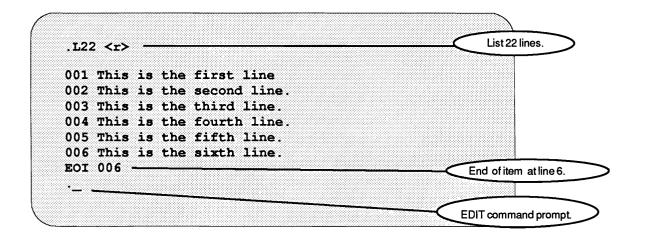
005 This is the fifth line.

006 This is the sixth line.
```

Invoke EDIT for item MERGETEST in the file SAMPLES.



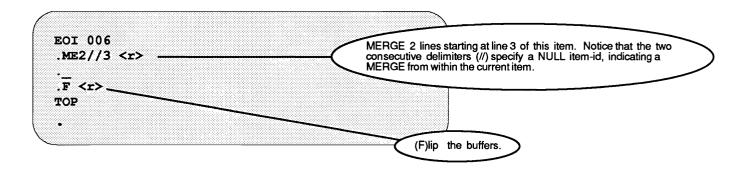
Review the item.



The item ATEST is now merged into the new item MERGETEST.

MERGE lines 3 and 4 to the bottom of MERGETEST.

Since the line pointer is already at the bottom (line 006), continue.



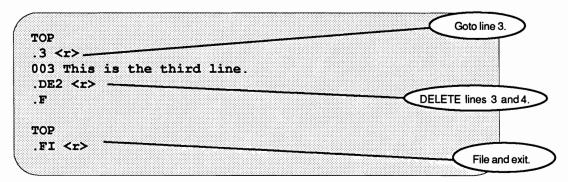
Review the item.

```
List 22 lines.

Old This is the first line
Old This is the second line.
Old This is the third line.
Old This is the fourth line.
Old This is the fifth line.
Old This is the sixth line.
Old This is the sixth line.
Old This is the third line.
Old This is the fourth line.
EDI Old End of item at line 8.
```

The third and fourth line are merged to the end of item. Lines 3 and 4 are still intact at their original locations.

NOTE: MERGE is NOT a move. It basically means to copy and add. It does not delete the source lines. If you wish to MERGE and DELETE, you must perform the DELETE LINES (DE) command on the source lines following the invocation of MERGE.



Since MERGE performs an INSERT of lines, all the lines following MERGE are renumbered following the Flip.

9.3 Merging From A Different File

<u>Command</u>	<u>Description</u>
MEn(filename item-id)s	MERGE a number of lines (n) from the source item in the source file addressed by "(filename item-id)" starting at line (s) in the source item.

In this case, the delimiter MUST be a left parenthesis "(". This indicates the MERGE source item is in another file.

If either the "number of lines" (n) or the source start position (s) is omitted, then a 1 is implied.

If the item-id is omitted, then the MERGE occurs from an item in the source file using same id as the current item.

Examples:

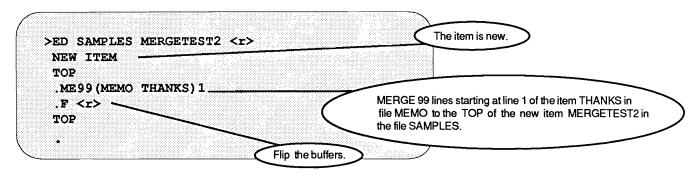
MES(MEMO THANKS)10 MERGE 5 lines from the item "THANKS" in the file MEMO starting

at line 10 of "THANKS".

ME99(BACKUP)1 MERGE 99 lines starting at line 1 from an item in the file BACKUP.

The source item has the same item-id as the current item.

Create a new item called MERGETEST2 in the SAMPLES file. MERGETEST2 is created by merging the entire item THANKS from the MEMO file.



Review the item

```
List 22 lines.

1.22 <r>
001 Memo 01/01/87
002 To: Charlie
003 From: Me
004
005 Charlie,
006 This is to inform you that your gift was received
007 and greatly appreciated. A very merry to you too!
008
009 Thanks,
EOI 009
End of item at line 9.
```

9.4 Merging Errors

If the source item or file does not exist, the MERGE command will respond with the System Message,

NOT ON FILE

The source item cannot be found. Make sure the filename or item-id is not misspelled.

```
.ME99 (MMO THANKS) 1 <r>
NOT ON FILE
.
```

The filename MEMO is misspelled. Re-enter the MERGE command.

```
.ME99 (MEMO THANKS) 1 <r>
.F <r>
TOP
.L22 <r>
001 Memo 01/01/87
002 To: Charlie
003 From: Me
004
005 Charlie,
006 This is to inform you that your gift was received
007 and greatly appreciated. A very merry to you too!
008
009 Thanks,
EOI 009
.FI <r>
```

The sequence of MERGEs, as in all changes, must be from the TOP of the item down. Changes must be made in ascending sequence of line numbers. If you enter out of sequence, the

SEQN?

error message is displayed. Flipping the buffer always resets the line pointer to the TOP of the item.

Exercise 12

1.	Fill in the commands to MERGE 10 l with line 25 of the current item.	ines after	line 10 of the current item, beginning
	TOP		
	010 This is line 10 for a MERGE ex	ercise	
	•		
	TOP		
	•		
2.	MERGE after line 5, lines 3 throug	nh 10 of it	em XYZ in the current file.
	TOP		
	005 This is line 5.		
	·		
	TOP		
	•		
3.	Fill in the commands to MERGE to t in the file MEMO. Assume that XYZ		of the current item, the entire item XYZ tributes.
	TOP		
	EOI 012		
	·		
	TOP		
	•		
4.	Match the command with its descrip	otion.	
	_ ME3//2	a.	MERGE 2 lines starting at line 2 of the item XYZ in the current file.
	_ ME//10	3.	
	ME TESTID	b.	MERGE 3 lines starting at line 2 of the current item.
	_ ME9 TESTID 10	c.	MERGE 10 lines starting at line 10 of the item TESTID in the SAMPLES file.
	_ ME2/XYZ/2		
	_ ME2 (SAMPLES) 3	d.	MERGE line 10 of the current item.
-	_ ME10(SAMPLES TESTID) 10	е.	MERGE 2 lines starting at line 3 of an item in the SAMPLES file with the same id as the current item

f.

MERGE 9 lines starting at line 10 of

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10. Cancelling Changes

It is often necessary to cancel a change or series of changes. Invoking the following CANCEL CHANGES (X) command allow you to delete the last change or all changes since the last (F)lip command. Changes in EDIT are any command which affect the data (INSERT, DELETE, REPLACE and/or MERGE).

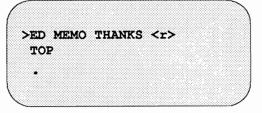
Remember, if an (FI) or (FS) has been performed, the item has been saved and the (X) commands have no effect.

Always be sure to save a copy of the item under a new item-id before making changes in EDIT so that mistakes are recoverable.

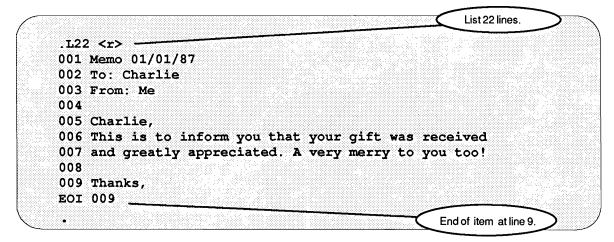
i	Command	Description
 	x	CANCEL the effect of the last change (INSERT, DELETE, REPLACE, or MERGE).
<u> </u>	XF	CANCEL the effect of all changes since the last (F)lip.
	Related Command;	
 	F	Flip buffers. Reflect the last series of changes to the work item without writing to the file. This occurs automatically at the termination of INSERT in a new item. (See "SAVING YOUR WORK.")

10.1 The Last Change

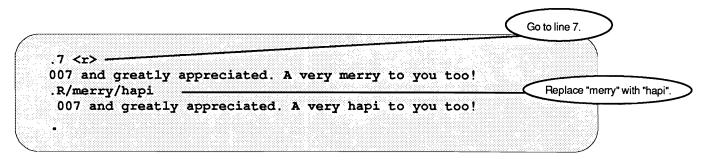
Invoke EDIT on item THANKS in the file MEMO.



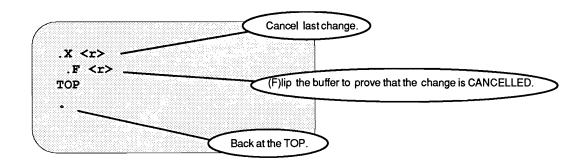
Review it.



Replace the word "merry" with the word "happy" on line 7.



This is obviously a mistake. The word "happy" is misspelled as "hapi". CANCEL this change.



Review the item now.

```
List 22 lines.

List 22 lines.

1.22 <r>
001 Memo 01/01/87
002 To: Charlie
003 From: Me
004
005 Charlie,
006 This is to inform you that your gift was received
007 and greatly appreciated. A very merry to you too!
008
009 Thanks,
EOI 009

End of item at line 9.
```

The change was cancelled.

10.2 All Changes Since The Last (F)lip

Invoke EDIT on item THANKS in the file MEMO.

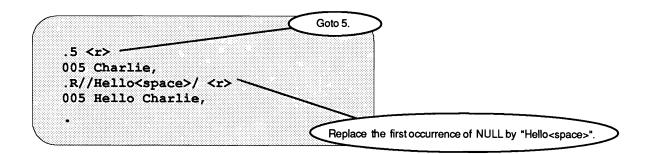
```
>ED MEMO THANKS <r>
TOP
```

Review it.

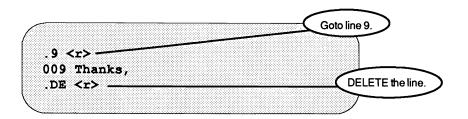
```
.P <r>
001 Memo 01/01/87
002 To: Charlie
003 From: Me
004
005 Charlie,
006 This is to inform you that your gift was received
007 and greatly appreciated. A very merry to you too!
008
009 Thanks,
EOI 009
End of item at line 9.
```

Make 2 changes.

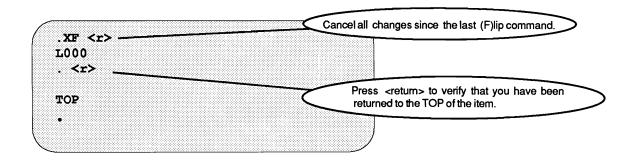
First, add the word "Hello" before "Charlie" on line 5.



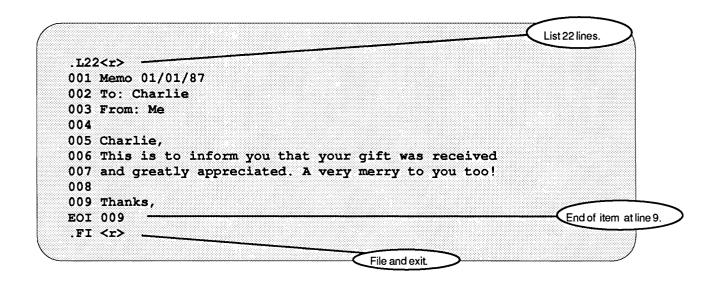
Second, DELETE (DE) line 9.



Now CANCEL the last 2 changes.



Review the item.



The last 2 changes were CANCELLED.

Exercise 13

1.	What is the command to CANCEL all changes since the last FLIP?
2.	What is the command to CANCEL the last change?
3.	Circle the change commands which are affected by the CANCEL command in the following example.
	<pre>>ED SAMPLES ATEST <return> TOP .G3 <return> 003 This is the third lineDE <return> .5 <return> 005 This is the fifth lineR/is/was <return> 005 This was the fifth lineDE <return> .This was the fifth lineThis was the fifth li</return></return></return></return></return></return></return></return></return></pre>
	morp.
	TOP •
4.	Circle the change commands which are unaffected by the CANCEL command in this example.
	<pre>>ED SAMPLES ATEST <return> TOP .3 <return> 003 This is the third line. DE <return> . <return> 004 This is the fourth line. < .R/This/That <return> 004 That is the fourth lineF <return></return></return></return></return></return></return></pre>
	TOP .2 002 This is the second line. DE <return> ME100(SAMPLES ANOTHER.TEST)1 <return> .XF <return> .F <return></return></return></return></return>
	TOP

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11. Prestored Commands

Sometimes, when editing an item, a complex series of commands must be entered multiple times. Having to type these commands over and over again becomes tedious and time consuming.

PRESTORES allow a single command or complex series of commands to be temporarily stored in EDIT and executed using 2 or 3 keystrokes.

This section covers how to assign, display, an invoke PRESTORED COMMANDS>

11.1 Assigning Prestored Commands

There are 10 PRESTORE entries, numbered from 0 to 9. Each can hold a single or series of EDIT commands.

<u>Command</u>	<u>Description</u>
P number command	Assign a single EDIT command to a PRESTORE entry. "number" is the PRESTORE entry (0-9).
P number command <es< td=""><td>Assign a series of EDIT commands to PRESTORE entry referred to by "number". Each command defined in a PRESTORED series is separated by an ESCAPE character.</td></es<>	Assign a series of EDIT commands to PRESTORE entry referred to by "number". Each command defined in a PRESTORED series is separated by an ESCAPE character.

Attention Ultimate users: You cannot use the esc character as the command separator. Instead, you must use a < ct > shift > as the command separator.

PRESTORES remain active while editing a single item or a series of items from an active item-list. Invoking EDIT from TCL resets PRESTORED entries to null.

The command "L22" (LIST 22 lines) is assign to PRESTORE entry "0" by default upon initiation of EDIT.

The maximum number of characters in each PRESTORE entry is 100. If this is exceeded, the next entry is overwritten. For example, if PRESTORE entry 0 has 110 characters in it, PRESTORE entry 1 is not usable since its first 10 characters have been overwritten by entry 0.

Examples:

P1 R/This/That

Assign the command that REPLACEs the first occurrence of "This" with "That" to PRESTORE entry 1.

P2RU999/10-10-86/01-01-87<esc>FI

Assign the following series of commands to PRESTORE 2. UNIVERSALLY REPLACE within 999 lines each occurrence of the date 10-10-86 with 01-01-87, FILE and EXIT.

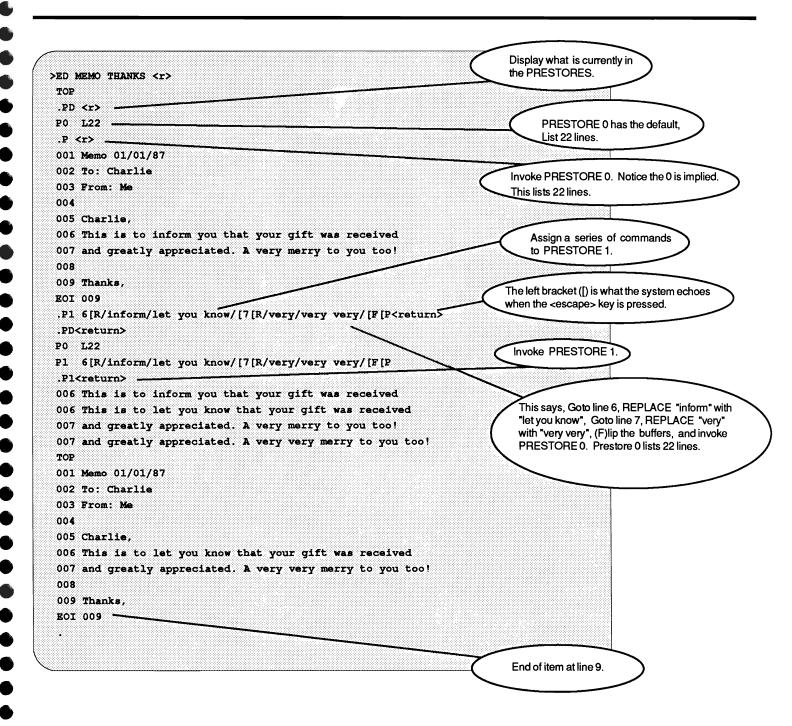
PRESTORES can be used to re-invoke other PRESTORES. If an item-list is active, an FI or EX will EXIT the current item, EDIT the next item on the list and continue with the designated PRESTORE. The process will terminate once the last item on the list has been exited.

11.2 Displaying and Invoking Prestored Commands

1	<u>Command</u>	<u>Description</u>
i	PD	Display the currently active PRESTORED entries.
	Pnumber	Invoke PRESTORE entry referenced by (number).

EDIT the item THANKS in the MEMO file and take a look at how a PRESTORE might work.

Invoke EDIT.



The invoked PRESTORE performs all the designated commands.

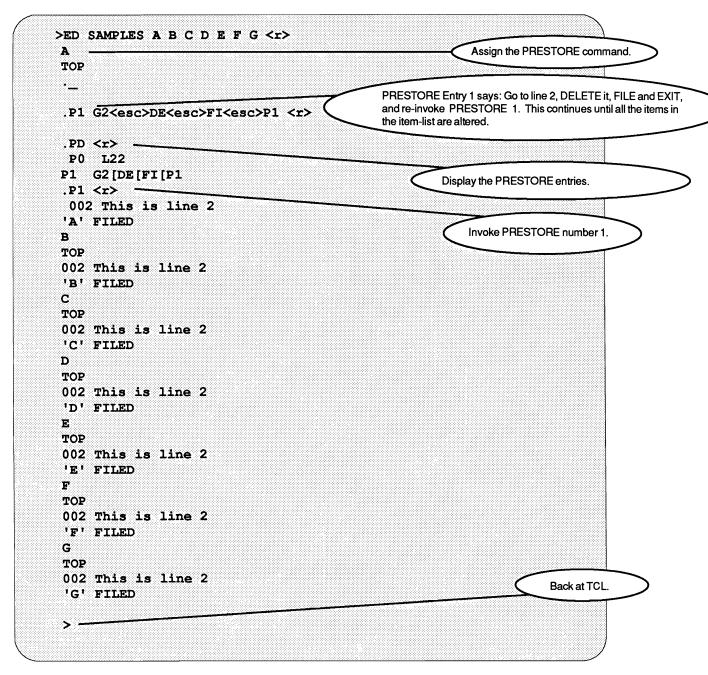
11.3 Using Item-Lists

PRESTORES can be invoked to take action on every item in an Item-List. This process is initiated by having the PRESTORE invoke a command which exits the present item and then re-invokes itself or another PRESTORE.

Example:

Write a PRESTORE to DELETE line 2 in all items on the Item-List.

Invoke EDIT for items A, B, C, D, E, F and G on the SAMPLES file.



Line 2 in every item in the Item-List has been deleted!

Exercise 14

1.	What is the default value of PRESTORE 0?
2.	What is the command to display all PRESTORE Entries?
3.	Assign the command "R/X/Y" (REPLACE X with Y) as PRESTORE 9.
4.	Assign the command "ME3//2" (MERGE 3 lines starting at line 2) to PRESTORE 1.
	•
5.	Fill in the system response for this command if the previous assignments have been made.
	.PD <return></return>
6.	Assign the following sequence of commands to PRESTORE entry 3.
	a. List 22 lines b. Delete line 10 c. On line 5, REPLACE the first X with a Y d. FILE and EXIT e. Re-invoke PRESTORE 3.
7.	EDIT and FILE DELETE items A, B, C, D, E, and F on the SAMPLES file with a single PRESTORE.
	Invoke EDIT
	>
	TOP
	Assign the commands to perform the FILE DELETES to PRESTORE 5.
	Invoke PRESTORE 5.

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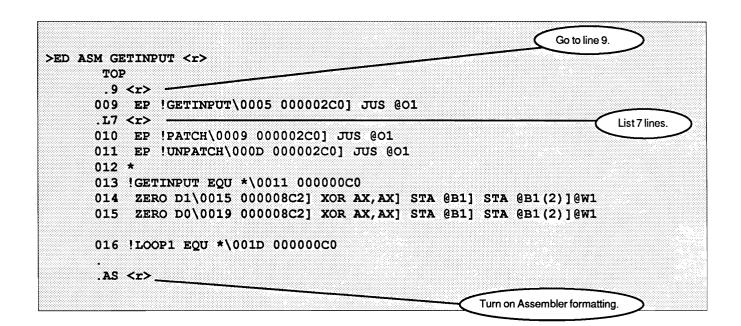
12. Other Commands

These commands are provided here for your information only. You don't need to do any of the examples.

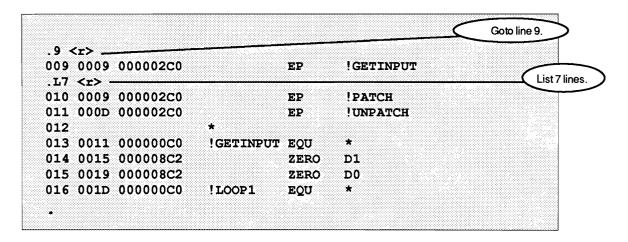
Command	Description
AS	Toggles Assembler Format on and off. Assembler Format arranges the display of an Assembler Source item so that it is more readable.
M I	Toggles Macro Expansion on and off. Many Assembler mnemonics are "macros," a set of "lower-level" assembler statements to perform a complex function.
s	Toggles Supppress on and off. Suppress the display of line numbers, or Suppress the display of imbedded object code in an Assembler Source item.
Zbegcol-endcol	Zone Display. Display data or text which exists between the begcol and endcol.

12.1 Assembler Format

EDIT is invoked for item GETINPUT in the file ASM



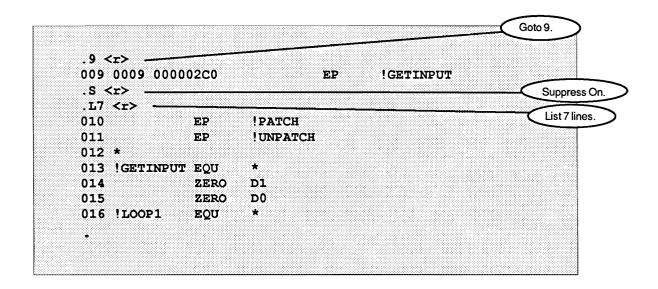
Goto line 9 and review same lines.



The Assembler listing is formatted in a easier to read fashion, with the object code first.

12.2 Suppress Line Numbers and Object Code

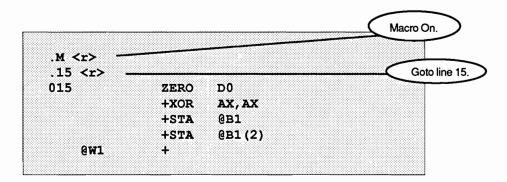
Now, Suppress the line numbers and object code.



Both the line numbers and object code displays are suppressed.

12.3 Macro Expansion

Look at the line 15 with Macro Expansion on.



Line 15 "ZERO DO" is made up of the commands preceded by plus signs (+).

12.4 Zone Display

Invoke EDIT on the item ATEST in the SAMPLES file.

```
>ED SAMPLES ATEST <r>
TOP
.
```

Review it.

```
List 22 lines.

Old This is the first line.

Old This is the second line.

Old This is the third line.

Old This is the fourth line.

Old This is the fifth line.

Old This is the last line.

EOI 006
```

Go to the TOP and set up a Zone Display of columns 13 through 17.



Review the item.

```
.L22<r>
001 first
002 second
003 third
004 fourth
005 fifth
006 sixth
EOI 006
```

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Glossary

absolute positioning A command to take you to a specific point in the item. account A directory of information and services within the system dictionary. Inserting text to the end of an existing line in an item. append ASCII Stands for American Standard Code for Information Interchange. attribute A field within an item delimited by an attribute mark. (ASCII character 254 represented by an up-arrow "^"). A collection of bits (8 in this case) which represent a character under some arbitrary standard byte (ASCII in this case). bit A binary unit. The smallest piece of information in a computer. A bit has only 2 states, on or off, represented by a 1 or a 0. In this case, 8 bits make up 1 byte. columnar zone A segment of the line in an item bounded by beginning and ending columnar positions. A symbol on terminal displays to indicate a point on the screen where operator input or system cursor output may occur. A collection of characters which represent information to be displayed or processed. data The "lower" level of a file, containing the data and/or text which make up the file's **DATA file** information. delimiter Any character which separates the elements of a data record or a command. DICT file The "upper" level of a file, containing DATA definition items used by ACCESS for retrieving and formatting data. editor A program for revising the contents of an item. file A set of distinct elements of information grouped according to purpose, located within an account item The individual elements in a file, consisting of multiple pieces of information. item-id System-assigned identification used to uniquely identify items and their physical location. line editor A type of editor which allows addition and revision on a line-per-line basis. Originally devised as an editor to be used on outdated teletype devices.

An index used internally by EDIT to keep track of the current attribute of the item being

line pointer

worked on.

master

dictionary A file containing those elements defining valid files and commands in the account.

multi-value A field within an attribute delimited by a value mark, (ASCII character 253 represented by a

right bracket "]").

prefix Inserting text at the beginning of a line in an item.

relative

positioning A command allowing you to address other lines in the item by skipping forward and backward

from the current line.

sub-value A field within a value delimited by a sub-value mark. (ASCII character 252 represented by a

back-slash "\").

TCL Terminal Control Language. The process which interprets and executes all command

sentences. You know TCL is active when the prompt character (>) is displayed.

text A string of characters which make up a descriptive statement. May be a line of a memo item, or

a descriptive attribute of a data item.

truncate To cut the end off a line.

verb A word of action. The first word of a command sentence initiated at TCL.

Exercise Answers

Exercise 1

- 1. Account
- 2. System Dictionary
- 3. Master Dictionary
 - 4. File Dictionary
- 5. DATA portion
- 6. Item-id

7.

8. Attribute Mark

Attributes

- 9. DATA item, Text item, PROC item
- 10. infinite
 - 32,000 11.

Exercise 2

- 1.
 - 2. Terminal Control Language
- 3. verbs
- LISTFILES 4.
- LIST filename 5.
- SORT filename 6.
 - 7. **EDIT INVENTORY A20**
 - 8. "NEW ITEM"
 - TOP
- 9. The editor is awaiting for a command
- EX 10.
- at TCL 11.
- 12. A1 A2 A3 EX EX EX
- 13. EXK

Exercise 3

- 1. ED CUSTOMERS 300 TOP
- 2.
- line pointer
- 3. 003
- 4. B 2 4 T
- ĒΧ
- В 5.
- U4 N3
 - N1 or <return> 055
- Т 6.
- L4 4 7. S?

- Exercise 3, continued
- 8. infinite
- CUSTOMERS 100 L 004 9.
- 10. L22

Exercise 4

- C, I, D, A, J, B, L, G, M, K, H, F, E 1.
- 2. ED SAMPLES EXERCISE4

This is a test of how much you have learned in the ADD LINES Section of the EDITOR Workbook. <return>

- 3. L22 <return>
- 4. EDIT SAMPLES ATEST L22 $\overline{2}$ put any text here.

put any text here also. <return>

- 5. FI
- 6. Inserting out of sequence, not from top to botton.

EXERCISE 5

- 1. an empty line
- 2. return key one
- 3.. a character used to hold a line as a null line.
- 4. **EDIT MEMO WELCOME**

X X

<return>

R10/X// <return>

5. **EDIT MEMO WELCOME**

۸Ā F

Exercise 6

- ТВ 1.
- Tab 2. Control I
- 3.
- 4. EDIT SAMPLES TABTEST

C TB 1123 JASON <TAB> 250 <TAB> 06-01-87 <rreturn> <return>
F

Exercise Answers - page 2

Exercise 7

- 1. F, E, H, B, A, I, G, D, C
- 2. ED SAMPLES ATEST L22 or L3 FI BACK.ATEST
- 3. EX FI FS BACK.3 EXK

Exercise 8

- 1. FD
- 2. RECOVER-FD
- 3. F T F
- 4. FD RECOVER-FD ITEM.DELETE.TEST
- 5. FD FDK

Exercise 9

- 1. 20 DE F
- 2. 15 DE6 F
- 3. DE50
- 4. C
- 5. EDIT SAMPLES DTEST DE5/test
- 6. 1, 3, 5 DE5/s/1-4

Exercise 10

- 1. L/HELLO
- 2. L120/123 120
- 3. L20/ABC
- 4. L120/X/1
- 5. L120/XYZ/1-10
- 6. ^ L200/^
- 7. H, G, F, I, B, E, D, A, C

Exercise 11

- 1. EDIT SAMPLES ATEST
 2
 R
 This is replaced line 2
- 2. 3
 R3
 These are the replaced lines
 These are the replaced lines
 These are the replaced lines
 F
- 3. 6 R/This is/That was F
- 4. R6/This/That RU6/This/That
- 5. RU6/A/*/10
- 6. 1 R//START/ F
- 7. G, F, J, H, I, D, C, A, E, B

Exercise 12

- 1. 10 ME10//25
- 2. 5 ME8/XYZ/3 F
- 3. B ME20/XYZ/1
- 4. B, D, G, F, A, E, C

Exercise 13

- 1. XF
- 2. X
- 3. .DE <return>
- 4. DE <return>
 .R/This/That <return>

Exercise 14

- 1. L22
- 2. PD
- 3. P9 R/X/4
- 4. P1 ME3//2
- 5. PO L22 P9 R/X/4 P1 ME3//2
- 6. P3 L22 [10[DE[F[5]R/X/Y[FI]P3
- 7. ED SAMPLES A B C D E F P5 FD[P5 P5

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