

1ºAULA

Introdução ao TSO Comandos básicos



<u>Índice</u>

1		s de atalho
2	Edição	o de um Particionado (Biblioteca, Data set)5
	3	Comandos de Linha de Edição.
	3.1	Deletar8
	3.2	Inserir
	3.3	Repetir12
	3.4	Copiar
	3.5	Movimentar18
	3.6	LC19 3.7
		UC22
4	Comai	ndos de Deslocamento.
	4.1	Deslocamento para
		direita23
	4.2	Deslocamento para
		esquerda24 5
		Comandos Diversos.
	5.1	Cols
	5.2	Max25
	5.3	Reset
	5.4	Profile
	5.5	Recovery
		on30
	5.6	Undo30
	5.7	Cancel31
	5.7	Locate32
	5.8	Save
	5.9	Find
	6.0	X
		all35
	6.1	Find
		all36
	6.2	Change
		Hex40
7	Comai	ndos Numeração
	7.1	Number42
	7.2	Renum
	7.3	O Overwrite
		4.4



TSO

TSO são as iniciais de Time Sharing Option.

O TSO disponibiliza aos usuários, através de um terminal, um ambiente com as ferramentas adequadas ao desenvolvimento e gestão de aplicações e sistemas informatizados.

É através do TSO que podemos:

- Parametrizar o terminal para sua utilização;
- Manipular Bibliotecas, Data Sets e membros;
- Visualizar e executar Jobs; etc

Teclas de Função (PFs)

- PF1 Help Auxilio
- PF2 Split Cria mais sessão (Tela)
- PF3 Volta ao menu anterior
- PF4 Volta ao comando anterior
- PF5 Repete o último comando
- PF6 Repete última alteração
- PF7 Volta página
- PF8 Avança página
- PF9 Navega entre duas sessões (Telas)
- PF10 Desloca tela á esquerda
- PF11 Desloca tela á direita
- PF12 Retrieve / Cancel
- ENTER Passa a informação teclada para o TSO

Outras teclas CLEAR, RESET e INSERT.



Vamos então detalhar o acesso o TSO.

Siga sempre o exemplo colocado abaixo do comando.

Digite na linha de comando digite a letra P e tecle <ENTER>.

```
CUSTOMPAC MASTER APPLICATION MENU
OPTION ===> P
                                                   SCROLL ===> CSR
                                                 USERID - ALUNOJ3
                                                 TIME - 21:47
 IS ISMF
             - Interactive Storage Management Facility
            - ISPF/Program Development Facility
 IP IPCS
              - Interactive Problem Control Facility
     SUPPORT - OS/390 ISPF System Support Options
             - OS/390 ISPF User Options
 OU USER
 SM SMP/E
             - SMP/E Dialogs
     ICSF
             - Integrated Cryptographic Service Facility
             - System Display and Search Facility
 SD SDSF
 R RACF
HC HCD
     RACF - Resource Access Control Facility
             - Hardware Configuration Definition
 BMB BMR BLD - BookManager Build (Create Online Documentation)
 BMR BMR READ - BookManager Read (Read Online Documentation)
 BMI BMR INDX - BookManager Read (Create Bookshelf Index)
    EXIT - Terminate ISPF using list/log defaults
F1=HELP
             F2=SPLIT
                         F3=END
                                      F4=RETURN
                                                 F5=RFIND
                                                              F6=RCHANGE
                        F9=SWAP
                                   F10=LEFT
                                              F11=RIGHT F12=RETRIEVE
```

Começaremos pela opção Utilities em seguida veremos as demais.

Digite em na linha de comando o número 3 e tecle <ENTER>.

```
Menu Utilities Compilers Options Status Help

ISPF Primary Option Menu

0 Settings Terminal and user parameters User ID .: ALUNOJ3
1 View Display source data or listings Time. . : 21:50
2 Edit Create or change source data Terminal. : 3278
3 Utilities Perform utility functions Screen. : 1
4 Foreground Interactive language processing Language. : ENGLISH
5 Batch Submit job for language processing Appl ID .: PDF
6 Command Enter TSO or Workstation commands TSO logon : IKJACCNT
7 Dialog Test Perform dialog testing TSO prefix: ALUNOJ3
8 LM Facility Library administrator functions System ID : PRE7
9 IBM Products IBM program development products MVS acct. : ASL
10 SCLM SW Configuration Library Manager Release .: ISPF 4.5
```

Enter X to Terminate using log/list defaults





Digite na linha de comando o número <u>4</u> e tecle <ENTER>, Os comandos podem ser digitados agrupadamente, neste caso poderíamos na primeira Tela ter digitado <u>P.3.4</u> e teclado <ENTER>.

```
Menu Help
     ______
                                                                                                   Utility Selection Panel
                                        Compress or print data set. Print index listing. Print,
                                                                                                                                                                                  2 Data Set Allocate,
 rename, delete, browse, edit or view members
 rename, delete, blowde, cutt of view members or data set and of the members or data set and the members or data set and the members or data set and the members of data set and the members of data sets and the members of
list of data set names.
                                                               Print or display VTOC information
                                                      Reset statistics for members of ISPF library
 6 Hardcopy Initiate hardcopy output
 Download Download ISPF C/S, VA for ISPF, transfer map, or data set.

8 Outlist Display, delete, or print held job output

9 Commands Create/change an application command table
Reserved This option reserved for future expansion.

11 Format Format definition for formatted data Edit/Browse
12 SuperC Compare data sets (Standard Dialog)
13 SuperCE Compare data sets Extended (Extended Dialog)
14 Search-For Search data sets for strings of data (Standard Dialog)
 15 Search-FoyE Search data sets for strings of data Extended (Extended Dialog) Option
            ===> 4
                                                F3-Exit
 F1=Help
                                                                                       F10=Actions F12=Cancel
```

A Bilioteca ou Particionado é um repositório onde armazenamos nossos Programas, JOB´s e outros arquivos, utilizaremos a biblioteca da escola <u>FUTURE.FONTES.COBOL</u>, como exemplo, então digite em frente ao <u>Dsname level... FUTURE.FONTES.COBOL</u>, e tecle <ENTER>.

```
Menu RefList RefMode Utilities Help
  _____
                        Data Set List Utility
blank Display data set list
Display VTOC information

P Print data set list
PV Print VTOC information
                                    Enter one or both of the parameters below:
   Dsname Level . . . FUTURE.FONTES.COBOL
Volume serial . .
Data set list options
   Initial View . . . 1 1. Volume Enter "/" to select option 2. Space / Confirm Data Set Delete
                  / Confirm Member Delete
4. Total
When the data set list is displayed, enter either:
"/" on the data set list command field for the command prompt pop-up,
an ISPF line command, the name of a TSO command, CLIST, or REXX exec, or
"=" to execute the previous command.
Option ===>
F1=Help
          F3=Exit F10=Actions F12=Cancel
```



O TSO trará uma lista das bibliotecas, neste caso apenas uma foi selecionada, para visualizaremos o conteúdo da biblioteca digite no lado esquerdo da biblioteca a letra <u>E</u> e tecle <ENTER>, a letra E corresponde à Edit.

Menu Options View Utilities Compilers F	Help
DSLIST - Data Sets Matching FUTURE.FONTES.COBO	DL Row 1 of 1
Command - Enter "/" to select action	Message Volume
E FUTURE.FONTES.COBOL	PR39C7

Agora o TSO trouxe uma lista dos membros da biblioteca solicitada, os membros poderão ser Editados através do comando <E> ou somente visualizados através dos comandos <V> ou

Menu	Functions	Confirm	Utilities	Help					
EDIT		UTURE.FO	NTES.COBOL				Row 00	001 c	of 00032
	Name	Prompt	VV MM	Chang	ged	Size	Init	Mod	ID
	a <mark>Locaarq</mark>	\	01.05	08/10/04	14:17	116	207	0	IBMUSER
	XXER0001	\	01.04	08/08/06	18:08	281	198	0	IBMUSER
	EXER0002	1	01.05	08/08/06	18:18	286	198	0	IBMUSER
	EXER0003	1	01.00	08/08/06	18:45	278	278	0	IBMUSER
	EXER0004	1	01.00	08/08/06	18:48	278	278	0	IBMUSER
	EXER0005								
	EXER0006	1	01.00	02/05/08	06:18	374	374	0	IBMUSER
	EXER0007								
	EXER0008		01.03	09/12/05	10:51	370	381	0	IBMUSER
	EXER0009		01.00	08/06/04	20:35	393	393	0	IBMUSER
	EXER0010								
	EXER0011	- 1	01.00	09/08/26	19:41	514	514	0	IBMUSER
	EXER0012		01.01	08/08/06	17:55	571	571	0	IBMUSER
	EXER0013	- 1	01.00	08/09/20	15:35	434	434	0	IBMUSER
	EXER0014	/	01.00	09/08/12	21:03	446	446	0	IBMUSER
	EXER0015	/	01.03	09/07/27	19:34	710	708	0	IBMUSER
	EXER0016	/							
	EXER0017/		01.02	09/08/26	21:14	478	485	0	IBMUSER
Command	===> \						Scro	11 ==	==> PAGE
F1=Hel	p F3=Ex	it F	10=Actions	F12=Cand	cel				



Vamos iniciar pelo comando de edição <E> que tem a função de Editar e permitir a alteração de um membro, para isso digitaremos a letra E do lado esquerdo do Membro EXER0001 a ser editado e teclar <ENTER>. Exemplos _E ___ ou ___E __ ou ___E_, qualquer lugar sobre a linha tracejada o comando será válido.

Menu	Functions	Confirm	Utilities	Help					
EDIT		FUTURE.FC	NTES.COBOL				Row 00	001 c	of 00032
	Name	Prompt	VV MM	Chan	ged	Size	Init	Mod	ID
	ALOCAARQ		01.05	08/10/04	14:17	116	207	0	IBMUSER
E	EXER0001		01.04	08/08/06	18:08	281	198	0	IBMUSER
	EXER0002		01.05	08/08/06	18:18	286	198	0	IBMUSER
	EXER0003		01.00	08/08/06	18:45	278	278	0	IBMUSER
	EXER0004		01.00	08/08/06	18:48	278	278	0	IBMUSER
	EXER0005								
	EXER0006		01.00	02/05/08	06:18	374	374	0	IBMUSER
	EXER0007								
	EXER0008		01.03	09/12/05	10:51	370	381	0	IBMUSER
	EXER0009		01.00	08/06/04	20:35	393	393	0	IBMUSER
	EXER0010								
	EXER0011		01.00	09/08/26	19:41	514	514	0	IBMUSER
	EXER0012		01.01	08/08/06	17:55	571	571	0	IBMUSER
	EXER0013		01.00	08/09/20	15:35	434	434	0	IBMUSER
	EXER0014		01.00	09/08/12	21:03	446	446	0	IBMUSER
	EXER0015		01.03	09/07/27	19:34	710	708	0	IBMUSER
	EXER0016								
	EXER0017		01.02	09/08/26	21:14	478	485	0	IBMUSER
Command	===>						Scro	11 ==	=> PAGE
F1=Hel	p F3=E	xit F	10=Actions	F12=Can	cel				

O EXER0001 é um programa em COBOL, nos o utilizaremos para aprender os comandos de edição no TSO.

```
File Edit Confirm Menu Utilities Compilers Test Help
 EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.04 Columns 00001 00072
 DENTIFICATION DIVISION.

O00002 PROGRAM-ID. EXERO001.

O00003 AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.
AUTHOR. FUTURE SCHOOL CURSOS 000004 * GERAR ARQUIVO DE PECAS SELECIONADAS 000006 *
000005 GERAR ARGOIVO DE FECAS S
000006 *
ENVIRONMENT DIVISION.
000008 CONFIGURATION SECTION.
000009 SPECIAL-NAMES.
                                                                                                  000007
000010
000011 *
INPUT-OUTPUT SECTION.
000013 FILE-CONTROL.
000014 SELECT CF
                                    DECIMAL-POINT IS COMMA.
                                                                                                   000012
                    SELECT CADPECA
                                                ASSIGN TO UT-S-CADPECA
                                                                                                  000015
U0U014 SELECT CADPECA ASSIGN TO UT-S-CADPECA
FILE STATUS IS FS-CADPECA.

000016 *

000017 SELECT CADATU ASSIGN TO UT-S-CADATU
FILE STATUS IS FS-CADATU.
                                                                                                  000018
 Command ===>
                                                                           Scroll ===> CSR
             F3=Exit F5=Rfind F6=Rchange F12=Cancel
F1=Help
```



Comandos de linha de edição

Comandos básicos.

Deletar linhas, os comandos para deleção de linhas são digitados sempre sobre a numeração de linha (qualquer lugar marcado em vermelho) do programa.

D Indica a deleção da linha corrente;

Para delter-mos uma linha digitar um **D** na sobre o número da linha 000300 e teclar <ENTER>.

```
File Edit Confirm Menu Utilities Compilers Test Help
       FUTURE.FONTES.COBOL(EXER0001) - 01.05 Columns 00001 00072
EDIT
00100 IDENTIFICATION DIVISION.
009500
      AUTHOR. FUTURE SC.

*

* GERAR ARQUIVO DE PECAS SELECIONADAS

*

ENVIRONMENT DIVISION.

CONFIGURATION SECTION.

SPECIAL-NAMES.

DECIMAL-POINT IS COM
           PROGRAM-ID. EXERO001.
D00/300
                           FUTURE SCHOOL CURSOS DE COMPUTAÇÃO.
000400
000500
000600
000700
000800
000900
001000
                           DECIMAL-POINT IS COMMA.
001100
          INPUT-OUTPUT SECTION.
FILE-CONTROL.
001200
001300
001400
                                   ASSIGN TO UT-S-CADPECA
            SELECT CADPECA
                       FILE STATUS IS FS-CADPECA.
001500
001600 *
001700
                SELECT CADATU
                                      ASSIGN TO UT-S-CADATU
                      FILE STATUS IS FS-CADATU.
001800
Command ===>
                                                          Scroll ===> CSR
F1=Help F3=Exit F5=Rfind F6=Rchange F12=Cancel
```

Constatamos abaixo que a linha 000300 foi deletada.

```
File Edit Confirm Menu Utilities Compilers Test Help
         FUTURE.FONTES.COBOL(EXER0001) - 01.05
                                                   Columns 00001 00072
 IDENTIFICATION DIVISION.
000200 PROGRAM-ID. EXER0001.
000400
000500
           * GERAR ARQUIVO DE PECAS SELECIONADAS
000500 * GERAR ARQUIVO DE FECAS :
000600 *
ENVIRONMENT DIVISION.
000800 CONFIGURATION SECTION.
000900 SPECIAL-NAMES.
                                                                       000700
001000
001100 *
                          DECIMAL-POINT IS COMMA.
                                                                       001200
INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400 SELECT C
              SELECT CADPECA ASSIGN TO UT-S-CADPECA
001400
                                                                       001500
ASSIGN TO UT-S-CADATU
                                                                       001800
FILE STATUS IS FS-CADATU.
Command ===>
                                                     Scroll ===> CSR
         F3=Exit F5=Rfind F6=Rchange F12=Cancel
F1=Help
```



Deleção de várias linhas simultaneas:

D5 Indica a deleção da linha corrente e as próximas 4 linhas; Digitar na linha 000200 **D5** e teclar <ENTER>.

File Edi	Confirm Menu Utiliti	es Compilers Test Help	
		0001) - 01.05 Columns 00001 00072 Top of Data **********************************	000100
IDENTIFICATI	N DIVISION.		
000200	PROGRAM-ID. EXER00	001.	
(· · // · · ·	AUTHOR. FUTURE	SCHOOL CURSOS DE COMPUTACAO.	
990400	*		
000500	* GERAR ARQUIVO DE PECA	AS SELECIONADAS	
000600	*		000700
ENVIRONMENT	DIVISION.		
00800	CONFIGURATION SECTIO	N.	
000900	SPECIAL-NAMES.		
001000	DECIMA	AL-POINT IS COMMA.	
001100	*		001200
INPUT-OUTPUT	SECTION.		
001300	FILE-CONTROL.		
001400		ASSIGN TO UT-S-CADPECA	001500
	IS FS-CADPECA.		
001600	*		
		ASSIGN TO UT-S-CADATU	001800
	IS FS-CADATU.		
Command ====		Scroll ===> CSR	
F1=Help	F3=Exit F5=Rfind	F6=Rchange F12=Cancel	

Constatamos abaixo que as 5 Linhas marcadas foram deletadas.

File Edit Confirm Menu Utilities Compilers Test Help EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.05 Columns 00001 00072 IDENTIFICATION DIVISION. 000100 PROGRAM-ID. EXER0001. CONFIGURATION SECTION. SPECIAL-NAMES. 000200 00800 000900 DECIMAL-POINT IS COMMA. 001000 001100 001200 INPUT-OUTPUT SECTION. 001300 FILE-CONTROL. SELECT CADPECA 001400 ASSIGN TO UT-S-CADPECA 001500 FILE STATUS IS FS-CADPECA. 001600 * 001700 SELECT CADATU ASSIGN TO UT-S-CADATU 001800 FILE STATUS IS FS-CADATU. 001900 002000 DIVISION. DATA 002100 FILE SECTION. 002200 002300 FD CADPECA Command ===> Scroll ===> CSR F1=Help F3=Exit F5=Rfind F6=Rchange F12=Cancel



Deleção de um bloco de linhas:

DD Indica um início e um fim de bloco a ser deletado.
Digitaremos <u>DD</u> na linha 000200 (início) e na linha <u>DD</u> 0001200 (fim) e teclamos <ENTER>.

File Edi	t Confirm Menu Utilities Compilers Test Help	
	FUTURE.FONTES.COBOL(EXER0001) - 01.05	000100
ZDENTIFICATI	ON DIVISION.	
1 .1	PROGRAM-ID. EXER0001.	
	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000400		
	* GERAR ARQUIVO DE PECAS SELECIONADAS	
00000	*	000700
ENVIRONMENT		
	CONFIGURATION SECTION.	
	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
/ 001400	*	DD1200
INPUT-OUTPUT		
	FILE-CONTROL.	
001400	SELECT CADPECA ASSIGN TO UT-S-CADPECA	001500
	IS FS-CADPECA.	
001600		
	SELECT CADATU ASSIGN TO UT-S-CADATU	001800
	IS FS-CADATU.	
Command ===		
тт=нетр	F3=Exit F5=Rfind F6=Rchange F12=Cancel	

Podemos observar que o bloco entre 000200 e 001200, marcado com o DD foi excluído.

File Edit	Confirm Menu Utilities Compilers Test Help	
	TURE.FONTES.COBOL(EXER0001) - 01.05 Columns 00001 00072	000100
IDENTIFICATION		
	FILE-CONTROL.	
001400		001500
	IS FS-CADPECA.	
001600	*	
001700	SELECT CADATU ASSIGN TO UT-S-CADATU	001800
FILE STATUS	IS FS-CADATU.	
001900	*	002000
DATA	DIVISION.	
002100	FILE SECTION.	
002200	*	
002300	FD CADPECA	
002400	RECORD CONTAINS 80 CHARACTERS	
002500	RECORDING MODE IS F	
002600	LABEL RECORD IS STANDARD	002700
DATA RECORD	IS REG-CADPECA.	
002800	01 REG-CADPECA.	
002900	05 COD-PECA PIC 9(05).	
Command ===>	Scroll ===> CSR	
	F3=Exit F5=Rfind F6=Rchange F12=Cancel	



2.0 Inserção de linhas;

<u>12</u> Insere duas linhas a partir da linha corrente.

Digite <u>12</u> na linha 000400 e teclar <ENTER>. Obs. Caso não seja digitado nada na linha que foi inserida o TSO removera a linha quando teclar o próximo <ENTER>.

File Edit	Confirm Menu Utilities Compilers Test Help	
*****	JTURE.FONTES.COBOL(EXER0001) - 01.05	000100
IDENTIFICATION		
	FILE-CONTROL.	
1 1	SELECT CADPECA ASSIGN TO UT-S-CADPECA	I20400
	IS FS-CADPECA.	
000500	*	
	SELECT CADATU ASSIGN TO UT-S-CADATU	000700
	IS FS-CADATU.	
00800	*	000900
DATA	DIVISION.	
	FILE SECTION.	
001100	*	
001200	FD CADPECA	
001300	RECORD CONTAINS 80 CHARACTERS	
001400	RECORDING MODE IS F	
001500	LABEL RECORD IS STANDARD	001600
DATA RECORD	D IS REG-CADPECA.	
001700	01 REG-CADPECA.	
001800	05 COD-PECA PIC 9(05).	
Command ===>	Scroll ===> CSR	
F1=Help	F3=Exit F5=Rfind F6=Rchange F12=Cancel	

Constatamos que linhas em branco foram acrescentadas.

```
File Edit Confirm Menu Utilities Compilers Test Help
 ______
 EDIT FUTURE.FONTES.COBOL(EXERO001) - 01.05 Columns 00001 00072
 IDENTIFICATION DIVISION.

000200 PROGRAM-ID. EXERO001.

000300 AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.
 . . . . . . )
000500 * GERAR ARQUIVO DE PECAS SELECIONADAS
000600 *
ENVIRONMENT DIVISION.
000800 CONFIGURATION SECTION.
000900 SPECIAL-NAMES.
001000 DECIMAL-POINT IS COMM
                                                                           000700
 001000
001100 *
                           DECIMAL-POINT IS COMMA.
                                                                           001200
INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400 SELECT CADPECA ASSIGN TO UT-S-CADPECA
                                                                          001500
FILE STATUS IS FS-CADPECA.
001600 *
Command ===>
                                                         Scroll ===> CSR
F1=Help
          F3=Exit F5=Rfind F6=Rchange F12=Cancel
```



2.0 Repetição de linhas;

R5 Indica que a linha corrente será repetida 5 vezes; Digite **R5** na linha 000400 e teclar <ENTER>.

File Edit	Confirm Menu Utilities Compilers Test Help	
	UTURE.FONTES.COBOL(EXER0001) - 01.05	000100
IDENTIFICATIO	N DIVISION.	
000200	PROGRAM-ID. EXER0001.	
	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
R50400	*	
000500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONMENT	DIVISION.	
00800	CONFIGURATION SECTION.	
000900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	001200
INPUT-OUTPUT	SECTION.	
001300	FILE-CONTROL.	
001400	SELECT CADPECA ASSIGN TO UT-S-CADPECA	001500
FILE STATUS	IS FS-CADPECA.	
001600	*	
	SELECT CADATU ASSIGN TO UT-S-CADATU	001800
	IS FS-CADATU.	
Command ===>		
F1=Help	F3=Exit F5=Rfind F6=Rchange F12=Cancel	

Podemos observar abaixo a repetição da linha 400 repetida 5 vezes.

File Edit	Confirm Menu Utilities Compilers Test Help	
	UTURE.FONTES.COBOL(EXER0001) - 01.05	000100
IDENTIFICATIO	±	
000200	PROGRAM-ID. EXER0001.	
000300	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000400	*	
000410	*	
000420	*	
000430	*	
000440	*	
000450	*	
000500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONMENT	DIVISION.	
000800	CONFIGURATION SECTION.	
000900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	001200
INPUT-OUTPUT	SECTION.	
001300	FILE-CONTROL.	
Command ===>	Scroll ===> CSR	
F1=Help	F3=Exit F5=Rfind F6=Rchange F12=Cancel	



RR Indica a início e fim de um bloco a ser repetido; Digite RR na linha 000100 e RR na linha 000400 e teclar <ENTER>.

File Edi	t Confirm Menu Utilities Compilers Test Help	
	FUTURE.FONTES.COBOL(EXER0001) - 01.05 Columns 00001 00072	RR0100
DENTIFICATI	ON DIVISION.	
000200	PROGRAM-ID. EXER0001.	
000300	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
RR0400	*	
0005/00	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONMENT	DIVISION.	
008000	CONFIGURATION SECTION.	
000900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	001200
INPUT-OUTPUT		
001300	FILE-CONTROL.	
	SELECT CADPECA ASSIGN TO UT-S-CADPECA	001500
	IS FS-CADPECA.	
001600		
	SELECT CADATU ASSIGN TO UT-S-CADATU	001800
	IS FS-CADATU.	
Command ====	******	
F1=Help	F3=Exit F5=Rfind F6=Rchange F12=Cancel	

Podemos observar que o bloco com inicio na linha 000100 e termino na linha 000400 foi repetido.

File Edit	Confirm Men	u Utilities Compilers Test Help	
		OBOL(EXER0001) - 01.05 Columns 00001 00072	
		******* Top of Data **************	000100
IDENTIFICATION			
000200	PROGRAM-ID.	EXER0001.	
000300	AUTHOR.	FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000400	*		000410
IDENTIFICATION	N DIVISION.		
000420	PROGRAM-ID.	EXERO001.	
000430	AUTHOR.	FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000440	*		
000500	* GERAR AROUI	VO DE PECAS SELECIONADAS	
000600	*		000700
ENVIRONMENT	DIVISION.		
00800	CONFIGURATION	N SECTION.	
000900	SPECIAL-NAME:	S.	
001000		DECIMAL-POINT IS COMMA.	
001100	*		001200
INPUT-OUTPUT	SECTION.		
001300	FILE-CONTROL		
001400	SELECT (CADPECA ASSIGN TO UT-S-CADPECA	
Command ===>		Scroll ===> CSR	
	F3=Exit	F5=Rfind F6=Rchange F12=Cancel	



RR2 Indica a iníco e fim de um bloco a ser repetido 2 vezes; Digite RR2 na linha 000100 e RR2 na linha 000400 e teclar <ENTER>.

```
File Edit Confirm Menu Utilities Compilers Test Help
 EDIT FUTURE.FONTES.COBOL (EXERO001) - 01.05 Columns 00001 00072
 IDENTIFICATION DIVISION.
        PROGRAM-ID. EXERO001.
 000200
O00300 AUTHOR.

RR2400 *
000500 * GERAR ARQUIVO DE PECAS SELECIONADAS
200600 *
ENVIRONMENT DIVISION.
000800 CONFIGURATION SECTION.
000900 SPECIAL-NAMES.
DECIMAL-POINT IS COM
 000300
             AUTHOR.
                            FUTURE SCHOOL CURSOS DE COMPUTAÇÃO.
                                                                              000700
                            DECIMAL-POINT IS COMMA.
 001000
001100 *
                                                                              001200
INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400
                 SELECT CADPECA ASSIGN TO UT-S-CADPECA
                                                                              001500
FILE STATUS IS FS-CADPECA.
001600 *
 001700
                 SELECT CADATU ASSIGN TO UT-S-CADATU
                                                                             001800
FILE STATUS IS FS-CADATU.
 Command ===>
                                                            Scroll ===> CSR
 F1=Help
            F3=Exit F5=Rfind F6=Rchange F12=Cancel
```

Podemos observar que o bloco com inicio na linha 100 e termino na linha 400 foi repetido 2 vezes.

File Edi	t Confirm Menu	Utilities Compilers Test Help	
***** ***	*****	BOL(EXER0001) - 01.05 Columns 00001 00072 ************ Top of Data **********************************	000100
	ON DIVISION. PROGRAM-ID.	PVPD0001	
		FUTURE SCHOOL CURSOS DE COMPUTAÇÃO.	
000400	*	TOTOKE BONDOE CONDOC II GOIN OTHORO.	000410
IDENTIFICATI	ON DIVISION.		
000420	PROGRAM-ID.	EXERO001.	
000430	AUTHOR.	FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000440	*		000450
IDENTIFICATI	ON DIVISION.		
000460	PROGRAM-ID.	EXERO001.	
000470	AUTHOR.	FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000480	*		
000500	* GERAR ARQUIV	J DE PECAS SELECIONADAS	
000600	*		000700
	DIVISION.		
00800	CONFIGURATION		
000900	SPECIAL-NAMES		
001000		DECIMAL-POINT IS COMMA.	
Command ===		Scroll ===> CSR	
F,1=HeTb	F3=Exit F5	=Rfind F6=Rchange F12=Cancel	



3.0 Cópia de linha;

- C Indica que a linha corrente será copiada; Digite <u>C</u> na linha 000300 e <u>A</u> na linha 000400 e teclar <ENTER>.
 - A → De After → A linha será copiada imediatamente após a linha onde for digitado a letra A.
 - ▶ B → De Before → A linha será copiada imediatamente antes da linha onde for digitado a letra B.

```
File Edit Confirm Menu Utilities Compilers Test Help
         FUTURE.FONTES.COBOL(EXER0001) - 01.05 Columns 00001 00072
 EDTT
 IDENTIFICATION DIVISION.
 000200 PROGRAM-ID. EXERO001.

C00300 AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.
C00300 AUTHOR.
A00400 *
000500 * GERAR ARQUIVO DE PECAS SELECIONADAS
000600 *
ENVIRONMENT DIVISION.
000800 CONFIGURATION SECTION.
000900 SPECIAL-NAMES.
DECIMAL-POINT IS COM
 C00300
                                                                                     000700
001000
001100 *
INPUT-OUTPUT SECTION.
                               DECIMAL-POINT IS COMMA.
                                                                                     001200
001300 FILE-CONTROL.
001400 SELECT CADPECA ASSIGN TO UT-S-CADPECA
                                                                                     001500
FILE STATUS IS FS-CADPECA.

001600 *

001700 SELECT CADATU
                                         ASSIGN TO UT-S-CADATU
                                                                                     001800
FILE STATUS IS FS-CADATU.
 Command ===>
                                                                 Scroll ===> CSR
F1=Help
            F3=Exit F5=Rfind F6=Rchange F12=Cancel
```

Podemos observar que o conteúdo da linha 000300 AUTHOR foi copiado para linha 000500.

File Edit	Confirm Menu Utilities Compilers Test Help	
	UTURE.FONTES.COBOL(EXER0001) - 01.05	000100
IDENTIFICATIO	**************************************	000100
	PROGRAM-ID. EXEROUO1.	
	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000400	*	000410
AUTHOR.	FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONMENT	DIVISION.	
00800	CONFIGURATION SECTION.	
000900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	001200
INPUT-OUTPUT	SECTION.	
001300	FILE-CONTROL.	
001400	SELECT CADPECA ASSIGN TO UT-S-CADPECA	001500
	IS FS-CADPECA.	001000
001600	*	
001700	SELECT CADATU ASSIGN TO UT-S-CADATU	
Command ===>	Scroll ===> CSR	

тт=нетр	F3=Exit F5=Rfind F6=Rchange F12=Cancel	



C3 Indica que a linha corrente será copiada 3 vezes; Digite $\underline{\textbf{C}}$ na linha 000100 e $\underline{\textbf{A}}$ na linha 000400 e teclar <ENTER>.

File Edit	Confirm Menu Utilities Compilers Test Help	
IDENTIFICATIO	UTURE.FONTES.COBOL(EXER0001) - 01.05 Columns 00001 00072 *********************************	C30100
1	PROGRAM-ID. EXER0001. AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO. *	
000600 ENVIRONMENT	* GERAR ARQUIVO DE PECAS SELECIONADAS * DIVISION.	000700
000900 001000	CONFIGURATION SECTION. SPECIAL-NAMES. DECIMAL-POINT IS COMMA.	
	SECTION. FILE-CONTROL.	001200
FILE STATUS 001600		001500
	SELECT CADATU ASSIGN TO UT-S-CADATU IS FS-CADATU. Scroll ===> CSR	001800
F1=Help	F3=Exit F5=Rfind F6=Rchange F12=Cancel	

Podemos observar que foram copiadas as 3 linhas marcadas anteriormente.

File Edit	Confirm Menu	Utilities	Compilers	Test	Help	
		•	,		Columns 00001 00072	000100
TDENTTFTCATTO			p or Data			000100
000200	PROGRAM-ID.	EXER0001.				
000300	AUTHOR.		HOOL CURSOS	OF CO	MPUTACAO.	
000400	*					000410
IDENTIFICATION	ON DIVISION.					
000420	PROGRAM-ID.	EXER0001.)
000430	AUTHOR.	FUTURE SC	HOOL CURSOS	DE CC	OMPUTACAO.	
000500	* GERAR AROUIVO	DE PECAS S	ELECIONADAS	3		
000600	*					000700
ENVIRONMENT	DIVISION.					
00800	CONFIGURATION	SECTION.				
000900	SPECIAL-NAMES.					
001000		DECIMAL-F	OINT IS COM	. AMN		
001100	*					001200
INPUT-OUTPUT	SECTION.					
001300	FILE-CONTROL.					
001400		PECA	ASSIGN 7	TU OT	-S-CADPECA	001500
	IS FS-CADPECA.					
Command ===					Scroll ===> CSR	
F1=Help	F3=Exit F5	=Rfind	F6=Rchange	F12=	=Cancel	

CC Indica a primeira e a última linha de um bloco que será copiado;

Digite $\underline{\textbf{CC}}$ na linha 00100 , $\underline{\textbf{CC}}$ na linha 000400 e $\underline{\textbf{A}}$ na linha 000900 e teclar <ENTER>.



File E	dit Confirm Menu Utilities Compilers Test Help	
	FUTURE.FONTES.COBOL(EXER0001) - 01.05 Columns 00001 00072	
/ \	**************************************	CC0100
/ \	TION DIVISION. PROGRAM-ID. EXER0001.	
/	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTAÇÃO.	
CC0400	AUTHOR. FUTURE SCHOOL CURSUS DE COMPUTAÇÃO.	
000500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000500	* GENAN ANQUIVO DE FECAS SELECTONADAS	000700
ENVIRONMEN'	T DIVISION.	000700
000800	CONFIGURATION SECTION.	
A00900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	001200
INPUT-OUTP	UT SECTION.	
001300	FILE-CONTROL.	
	SELECT CADPECA ASSIGN TO UT-S-CADPECA	001500
	S IS FS-CADPECA.	
00100	*	
	SELECT CADATU ASSIGN TO UT-S-CADATU	001800
	S IS FS-CADATU.	
Command ==	******	
F.T=HeTb	F3=Exit F5=Rfind F6=Rchange F12=Cancel	

Podemos observar o bloco marcado com inicio <u>CC</u> linha 100 e o <u>CC</u> fim linha 400 foi copiado após a linha 900.

```
File Edit Confirm Menu Utilities Compilers Test Help
 EDIT FUTURE.FONTES.COBOL(EXERO001) - 01.05 Columns 00001 00072
 IDENTIFICATION DIVISION.
 000200 PROGRAM-ID. EXER0001.
000300 AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTAÇÃO.
000400 *
000500 * GERAR ARQUIVO DE PECAS SELECIONADAS
000600 *
ENVIRONMENT DIVISION.
000800 CONFIGURATION SECTION.
 000400
                                                                                000700
 000900
              SPECIAL-NAMES.
 000900 SFECTAL NAMES.
000910 IDENTIFICATION DIVISION.
000920 PROGRAM-ID. EXERO001.
000930 AUTHOR. FUTURE SC
                              FUTURE SCHOOL CURSOS DE COMPUTAÇÃO
                                                                                001000
DECIMAL-POINT IS COMMA.
 001100
                                                                                001200
INPUT-OUTPUT SECTION.
 001300 FILE-CONTROL.
               SELECT CADPECA
 001400
                                       ASSIGN TO UT-S-CADPECA
Command ===>
                                                           Scroll ===> CSR
            F3=Exit F5=Rfind F6=Rchange F12=Cancel
  F1=Help
```

4.0 Movimentação de linha;

M Indica que a linha corrente será movimentado;
Digite **M** na linha 000200 e **A** na linha 000400 e teclar <ENTER



000300	AUTHOR.	FUTURE SC	HOOL CURS	OS D	E COMPUTACAO.		
A00400	*						
000500	* GERAR ARQUIVO	DE PECAS S	ELECIONAD	AS			
000600	*						000700
ENVIRONMENT	DIVISION.						
00800	CONFIGURATION	SECTION.					
000900	SPECIAL-NAMES.						
001000		DECIMAL-P	OINT IS C	OMMA			
001100	*						001200
INPUT-OUTPUT	SECTION.						
001300	FILE-CONTROL.						
001400	SELECT CAI	PECA	ASSIGN	TO	UT-S-CADPECA		001500
FILE STATUS	IS FS-CADPECA.						
001600	*						
001700	SELECT CAI	DATU	ASSIGN	TO	UT-S-CADATU		001800
FILE STATUS	IS FS-CADATU.						
Command ===>					Scroll	===> CSR	
F1=Help	F3=Exit F5	=Rfind	F6=Rchan	ge	F12=Cancel		

Podemos observar a movimentação do PROGRAM-ID LINHA 410.

```
File Edit Confirm Menu Utilities Compilers Test Help
 EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.05
                                                        Columns 00001 00072
 000100
IDENTIFICATION DIVISION.
            AUTHOR.
                            FUTURE SCHOOL CURSOS DE COMPUTACAO.
000400
                                                                              000410
PROGRAM-ID. EXER0001.
000500 * GERAR ARQUIVO DE PECAS SELECIONADAS
000600 *

ENVIRONMENT DIVISION.
000800 CONFIGURATION SECTION.
000900 SPECIAL-NAMES.
                                                                              000700
001000
001000 DECIMAL-POINT IS COMMA.

001100 *
INPUT-OUTPUT SECTION.

001300 FILE-CONTROL.

001400 SELECT CADPECA ASSIGN TO UT-S-CADPECA
FILE STATUS IS FS-CADPECA.
                                                                              001200
                                                                              001500
001/00 SELECT CADATU ASSIGN TO UT-S-CADATU
001800 FILE STATUS IS FS-CADATU.
                                                            Scroll ===> CSR
 F1=Help F3=Exit F5=Rfind F6=Rchange F12=Cancel
```

M3 Indica que a linha corrente será movimentado 3 vezes; Digite M3 na linha 000100 e A na linha 000800 e teclar <ENTER>.



001000	DECIMAL-POINT IS COMMA.					
001100	*					001200
INPUT-OUTPUT	SECTION.					
001300	FILE-CONTRO	L.				
001400	SELECT	CADPECA	ASSIGN	TO	UT-S-CADPECA	001500
FILE STATUS	IS FS-CADPE	CA.				
001600	*					
001700	SELECT	CADATU	ASSIGN	TO	UT-S-CADATU	001800
FILE STATUS	IS FS-CADAT	U.				
Command ===>					Scroll ===> CSR	
F1=Help	F3=Exit	F5=Rfind	F6=Rchan	ge	F12=Cancel	

Podemos observar que as linhas iniciais foram movimentas após a linha 800.

File Edit	Confirm Menu Utilities Compilers Test Help	
	"UTURE.FONTES.COBOL(EXER0001) - 01.05 Columns 00001 00072	
000400	*	
000500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONMENT	DIVISION.	
000800	CONFIGURATION SECTION.	
000810	IDENTIFICATION DIVISION.	
000820	PROGRAM-ID. EXERO001.	
000830	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTAÇÃO.	
000900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	001200
INPUT-OUTPUT	SECTION.	
001300	FILE-CONTROL.	
001400	SELECT CADPECA ASSIGN TO UT-S-CADPECA	
001500	FILE STATUS IS FS-CADPECA.	
001600	*	
001700	SELECT CADATU ASSIGN TO UT-S-CADATU	
001800	FILE STATUS IS FS-CADATU.	
Command ===>	Scroll ===> CSR	
F1=Help	F3=Exit F5=Rfind F6=Rchange F12=Cancel	
•		

MM Indica a primeira e a última linha de um bloco que será movimentado; Digite MM na linha 000200 , MM na linha 000500 A na linha 000900 e teclar <ENTER>.

File Edit	t Confirm Menu Utilities Compilers Test Help	
***** **** IDENTIFICATION	FUTURE.FONTES.COBOL(EXER0001) - 01.05	000100
/ \	PROGRAM-ID. EXERO001. AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTAÇÃO.	
000400	*	
MM0500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONMENT 000800	DIVISION. CONFIGURATION SECTION.	
A00900 001000	SPECIAL-NAMES. DECIMAL-POINT IS COMMA.	
	*	001200
INPUT-OUTPUT	SECTION.	
	FILE-CONTROL.	
001400 FILE STATUS	SELECT CADPECA ASSIGN TO UT-S-CADPECA IS FS-CADPECA.	001500



001600	*				
001700	SELECT	CADATU	ASSIGN TO	UT-S-CADATU	001800
FILE STATUS	IS FS-CADA	ru.			
Command ===>				Scroll ===> CSR	
F1=Help	F3=Exit	F5=Rfind	F6=Rchange	F12=Cancel	

Podemos observar que o bloco com inicio na linha 200 e fim na linha 500 foi movimentado após a linha 900

File Edit Co	onfirm Menu	Utilities	Compilers	s Te	st Help		
		*	,			olumns 00001 00072	
		***** To	p of Data	****	*****	******	000100
IDENTIFICATION 1	DIVISION.						000700
000600 * ENVIRONMENT	DIVITOTON						000700
	ONFIGURATION	CECTTON					
	PECIAL-NAMES.						
	ROGRAM-ID.						
	UTHOR.		HOOT, CURSO	OS DE	COMPILEZ	CAO	
	, inoi:	1010111 00	HOOL COND.	JO DE	00111 0 11	.01.0.	
	GERAR AROUIVO) DE DECAS S	ET.ECTONADA	2 0			001000
DECIMAL-POINT IS		DE LECIS S	HHECTOWNED!				001000
001100 *	00111111						001200
INPUT-OUTPUT	SECTION.						
001300 F	ILE-CONTROL.						
001400	SELECT CA	DPECA	ASSIGN	TO	UT-S-CAI	PECA	001500
FILE STATUS I	S FS-CADPECA.						
001600 *							
	SELECT CA	DATU	ASSIGN	TO	UT-S-CAI	DATU	001800
FILE STATUS I	S FS-CADATU.						
Command ===>	_					Scroll ===> CSR	
F1=Help F3=1	Exit F5=	=Rfind F	6=Rchange	F12	=Cancel		

LC Indica que a linha corrente será conterá apenas letras minúsculas; Digite **LC** na linha 000300 tecle <ENTER>.

File Edit	Confirm Menu (Jtilities Compilers Test Help	
		L(EXER0001) - 01.08 Columns 00001 00072	000100
IDENTIFICATIO	N DIVISION.	-	
2 00 200	PROGRAM-ID.	EXER0001.	
(LC03)0	AUTHOR.	FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000400	*		
000500	* GERAR ARQUIVO I	DE PECAS SELECIONADAS	
000600	*		000700
ENVIRONMENT	DIVISION.		
00800	CONFIGURATION	SECTION.	
000900	SPECIAL-NAMES.		
001000		DECIMAL-POINT IS COMMA.	
001100	*		001200
INPUT-OUTPUT	SECTION.		
001300	FILE-CONTROL.		



001400	SELECT	CADPECA	ASSIGN	TO	UT-S-CADPECA	001500
FILE STATUS	IS FS-CADPE	CA.				
001600	*					
001700	SELECT	CADATU	ASSIGN	TO	UT-S-CADATU	001800
FILE STATUS	IS FS-CADAT	·U.				
Command ===>					Scroll ===> CSR	
F1=Help	F3=Exit	F5=Rfind	F6=Rchan	αe	F12=Cancel	

Podemos observar que o conteúdo da linha 00300 ficou com a letra minúscula.

```
File Edit Confirm Menu Utilities Compilers Test Help
EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.08 Columns 00001 00072
 IDENTIFICATION DIVISION.
            PROGRAM-ID. EXER0001.
author. future school cursos de computacao.
000200 PROGRAM-ID.
000300
 000400
000400
000500 * GERAR ARQUIVO DE PECAS SELECIONADAS
000600 *
ENVIRONMENT DIVISION.
                                                                        000700
000800 CONFIGURATION SECTION.
000900 SPECIAL-NAMES.
001000
                           DECIMAL-POINT IS COMMA.
001100 *
001200 INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001200
001400
            SELECT CADPECA
                                    ASSIGN TO UT-S-CADPECA
                      FILE STATUS IS FS-CADPECA.
001500
001600 *
001700 *~--
                SELECT CADATU
                                   ASSIGN TO UT-S-CADATU
                                                                        001800
FILE STATUS IS FS-CADATU.
Command ===>
                                                       Scroll ===> CSR
           F3=Exit F5=Rfind F6=Rchange F12=Cancel
 F1=Help
```

UC Indica que a linha corrente terá apenas letras maiúsculas; Digite **UC** na linha 000300 tecle <ENTER>.

```
File Edit Confirm Menu Utilities Compilers Test Help
EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.08 Columns 00001 00072
IDENTIFICATION DIVISION.
000200 PROGRAM-ID. EXER0001.
         author.
*
UC0300
                        future school cursos de computacao.
000500 * GERAR ARQUIVO DE PECAS SELECIONADAS
000600
                                                                   000700
ENVIRONMENT DIVISION.

000800 CONFIGURATION SECTION.

000900 SPECIAL-NAMES.
001000
                         DECIMAL-POINT IS COMMA.
                                                                   001100
                               INPUT-OUTPUT SECTION.
FILE-CONTROL.
                    001200
         001400
                        001300
                        SELECT CADPECA ASSIGN TO UT-S-CADPECA
              001500
                                  FILE STATUS IS FS-CADPECA.
                              001600
```



001700	SELECT	CADATU	ASSIGN	TO	UT-S-CADATU	J	
001800		FILE	STATUS IS	FS-	CADATU.		
Command ===>					Scroll	===>	CSR
F1=Help	F3=Exit	F5=Rfind	F6=Rchan	.ge	F12=Cancel		

Podemos observar que o conteúdo da linha 00300 ficou com a letra maiúscula.

File Edi	t Confirm	Menu Utilities Compilers Test Help	
*****		S.COBOL(EXER0001) - 01.08 Columns 00001 00072	000100
	DIVISION DIVISION PROGRAM-I		
		FUTURE SCHOOL CURSOS DE COMPUTAÇÃO.	
000400	*	TOTOKE BENEDE CONSOS DE COMPOTNENO.	
000500	* GERAR AR	RQUIVO DE PECAS SELECIONADAS	
000600	*	X 110 22 12010 02220101112110	000700
ENVIRONMENT	DIVISION	1.	
000800	CONFIGURA	ATION SECTION.	
000900	SPECIAL-N	NAMES.	
001000		DECIMAL-POINT IS COMMA.	
001100	*		
001200	INPUT-OUTP	PUT SECTION.	
001300	FILE-CONT	TROL.	
001400	SELEC	CT CADPECA ASSIGN TO UT-S-CADPECA	
001500		FILE STATUS IS FS-CADPECA.	
001600	*		
001700	SELEC	CT CADATU ASSIGN TO UT-S-CADATU	001800
FILE STATUS	IS FS-CAD	DATU.	
Command ===	>	Scroll ===> CSR	
F1=Help	F3=Exit	F5=Rfind F6=Rchange F12=Cancel	

Comandos de deslocamento.

→ Desloca para a direita de uma ou mais colunas; Digite

) na linha 000300 e tecle <ENTER>.



001400	SELECT	CADPECA	ASSIGN	TO	UT-S-CADPECA	001500
FILE STATUS	IS FS-CADPE	ECA.				
001600	*					
001700	SELECT	CADATU	ASSIGN	TO	UT-S-CADATU	001800
FILE STATUS	IS FS-CADAT	ľU.				
Command ===>					Scroll ===> CSR	
F1=Help	F3=Exit	F5=Rfind	F6=Rchang	re	F12=Cancel	

Podemos observar o deslocamento para a direita da linha 00300;

File Edit	Confirm Menu Utilities Compilers Test Help	
	UTURE.FONTES.COBOL(EXER0001) - 01.05 Columns 00001 00072 *********************************	000100
000200	PROGRAM-ID. EXER0001.	
000300	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000400	*	
000500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONMENT	DIVISION.	
00800	CONFIGURATION SECTION.	
000900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	001200
INPUT-OUTPUT	SECTION.	
001300	FILE-CONTROL.	
001400	SELECT CADPECA ASSIGN TO UT-S-CADPECA	001500
	IS FS-CADPECA.	
001600	*	
001700	SELECT CADATU ASSIGN TO UT-S-CADATU	001800
	IS FS-CADATU.	
Command ===>	Scroll ===> CSR	
F1=Help	F3=Exit F5=Rfind F6=Rchange F12=Cancel	

→ Desloca para a esquerda de uma ou mais colunas;

Digite <u>(</u>na linha 000300 e tecle <ENTER>.

File Edit	Confirm Menu Utilities Compilers Test Help	
	UTURE.FONTES.COBOL(EXER0001) - 01.05 Columns 00001 00072	000100
IDENTIFICATIO	N DIVISION.	
000200	PROGRAM-ID. EXER0001.	
(0)0300	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTAÇÃO.	
000400	*	
000500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONMENT	DIVISION.	
00800	CONFIGURATION SECTION.	
000900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	001200
INPUT-OUTPUT	SECTION.	
	FILE-CONTROL.	
001400	SELECT CADPECA ASSIGN TO UT-S-CADPECA	001500
FILE STATUS	IS FS-CADPECA.	



001600 *
001700 SELECT CADATU
FILE STATUS IS FS-CADATU.
Command ===> ASSIGN TO UT-S-CADATU 001800

Scroll ===> CSR

F1=Help F3=Exit F5=Rfind F6=Rchange F12=Cancel

Podemos observar o deslocamento para a esquerda da linha 00300;

File Edi	Confirm Menu (Jtilities Co	ompilers	Test	Help	
*****	*******				Columns 00001 00072	000100
IDENTIFICATI						
000200 000300	PROGRAM-ID. AUTHOR. FU		CLIDGUG D	E COMD	IIII A CA O	
	*	TOKE SCHOOL	CURSUS L	E COME	OTACAO.	
000500	* GERAR AROUIVO I	E DECAS SEL	ECTONADAS			
000500	*	OL LECINO DEBI		,		000700
ENVIRONMENT	DIVISION.					000700
00800	CONFIGURATION	SECTION.				
000900	SPECIAL-NAMES.					
001000		DECIMAL-POI	NT IS COM	MA.		
001100	*					001200
INPUT-OUTPUT	SECTION.					
001300	FILE-CONTROL.					
001400	SELECT CADE	PECA Z	ASSIGN T	O UT-	S-CADPECA	001500
	IS FS-CADPECA.					
001600	*					
001700	SELECT CADA	ATU Z	ASSIGN T	O UT-	S-CADATU	001800
	IS FS-CADATU.				0 11 2 000	
Command ===			D - 1	D10 C	Scroll ===> CSR	
r.t=HeTb	F3=Exit F5=Ri	ina F'6=.	Rchange	FIZ=Ca	.ncel	

Comandos Diversos.

Trás uma ou mais requas, com a identificação das colunas. COLS →

Digite COLS na linha 000100 e tecle <ENTER>.

```
File Edit Confirm Menu Utilities Compilers Test Help
    FUTURE.FONTES.COBOL(EXER0001) - 01.08
                                   Invalid command
000700
000800 CONFIGURE SPECIAL NAMES.
```



001000		DECIMAL-	-POINT IS COM	MMZ	١.	
001100	*					001200
INPUT-OUTPUT	SECTION.					
001300	FILE-CONTRO	OL.				
001400	SELECT	CADPECA	ASSIGN 7	ГΟ	UT-S-CADPECA	001500
FILE STATUS	IS FS-CADP	ECA.				
001600	*					
001700	SELECT	CADATU	ASSIGN :	ГΟ	UT-S-CADATU	001800
FILE STATUS	IS FS-CADA	TU.				
Command ===>					Scroll ===> CSR	
F1=Help	F3=Exit	F5=Rfind	F6=Rchange	е	F12=Cancel	

Podemos observar a requa com as posições delimitadas.

File Edit	Confirm Menu	Utilities Co	ompilers Te	est Help		
					umns 00001 00072	
					6+7	000100
	N DIVISION.		<u>-</u>			
000200	PROGRAM-ID.	EXER0001.				
000300	AUTHOR.	FUTURE SCHOO	OL CURSOS DI	E COMPUTA	CAO.	
000400	*					
000500	* GERAR ARQUIVO	DE PECAS SELE	ECIONADAS			
000600	*					000700
ENVIRONMENT	DIVISION.					
00800	CONFIGURATION	SECTION.				
000900	SPECIAL-NAMES.					
001000		DECIMAL-POIN	NT IS COMMA			
001100	*					001200
INPUT-OUTPUT						
	FILE-CONTROL.					
001400		DPECA A	ASSIGN TO	UT-S-CAD	PECA	001500
	IS FS-CADPECA.					
001600	*					
	SELECT CA	DATU A	ASSIGN TO	UT-S-CADA		
Command ===>	-0 - 1.				Scroll ===> CSR	
F1=Help	F3=Exit F5	=Riind F6=	=Rchange Fi	12=Cancel		

MAX <PF7/PF8>

Exibir o início M + <PF7> ou o fim M + <PF8> do programa.

Exemplo: M + <PF7>

Digite M na linha de COMANDO e tecle <PF8>.



000900	SPECIAL-NAMES.		
001000	DECIMA:	L-POINT IS COMMA.	
001100	*		001200
INPUT-OUTPUT	SECTION.		
001300	FILE-CONTROL.		
001400	SELECT CADPECA	ASSIGN TO UT-S-CADPECA	001500
FILE STATUS	IS FS-CADPECA.		
001600	*		
001700	SELECT CADATU	ASSIGN TO UT-S-CADATU	001800
FILE STATUS	AS FS-CADATU.		
Command ===>	(M)	Scroll ===> CSR	
F1=Help	F3=Exit F5=Rfind	F6=Rchange F12=Cancel	

Podemos observar o deslocamento para o fim do programa;

```
File Edit Confirm Menu Utilities Compilers Test Help
        FUTURE.FONTES.COBOL(EXER0001) - 01.05 Columns 00001 00072
EDTT
        *======*
900-00-ERRO SECTION.
026600
026700
              DISPLAY '*********** EXER0001 ***********
026800
              DISPLAY '*
026900
027000
               DISPLAY '* ERRO ' FS-OPERACAO ' DO ARQUIVO ' FS-ARQUIVO ' *'
              DISPLAY '*
027100
              DISPLAY '* FILE STATUS = ' FS-COD-STATUS
027200
027300
              DISPLAY '*
027400
              DISPLAY '* PROGRAMA ENCERRADO'
027500
027600
              DISPLAY '*
027700
               DISPLAY '************ EXER0001 ***********
027800
                                                                    027900
028000
028100
          900-00-FTM. EXIT.
 ***** ************************* Bottom of Data *******************
Command ===>
                                                     Scroll ===> CSR
         F3=Exit F5=Rfind F6=Rchange F12=Cancel
F1=Help
```

Digite M na linha COMANDO e tecle < PF7>.

```
File Edit Confirm Menu Utilities Compilers Test Help
      *======*
026400
        900-00-ERRO
026500
                             SECTION.
        *-----
026600
026700
            DISPLAY '********** EXER0001 **********
026800
           DISPLAY '*
026900
            DISPLAY '* ERRO ' FS-OPERACAO ' DO ARQUIVO ' FS-ARQUIVO ' *'
027000
            DISPLAY '*
027100
           DISPLAY '* FILE STATUS = ' FS-COD-STATUS
027200
027300
027400
           DISPLAY '*
            DISPLAY '* PROGRAMA ENCERRADO'
027500
027600
            DISPLAY '*
027700
            DISPLAY '*********** EXER0001 **********
027800
                                                      027900
STOP RUN.
028000
         900-00-FIM.
www.osasconamaq.com.br/CURSOS
```



Podemos observar o deslocamento para o início fim do programa;

```
File Edit Confirm Menu Utilities Compilers Test Help
 EDIT FUTURE.FONTES.COBOL(EXERO001) - 01.05 Columns 00001 00072
 ***** ************** 000100
IDENTIFICATION DIVISION.
        PROGRAM-ID.
AUTHOR.
 000200
                             EXER0001.
                          EXERUUUI.
FUTURE SCHOOL CURSOS DE COMPUTACAO.
 000300
          *
* GERAR ARQUIVO DE PECAS SELECIONADAS
*
000400
000500
000600
           ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
SPECIAL-NAMES.
000700
000800
000900
                             DECIMAL-POINT IS COMMA.
001000
001100
                                                                               001200
INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
001400
               SELECT CADPECA
                                      ASSIGN TO UT-S-CADPECA
 001400
                                                                              001500
FILE STATUS IS FS-CADPECA.
001700 SELECT CADATU ASSIGN TO UT-S-CADATU FILE STATUS IS FS-CADATU.
Scroll ===> CSR
                                                                    001800
                                                                Command ===>
```

RESET

Para cancelar um estado de exibição dos dados durante a edição;

Digite **RESET** ou **RES** na linha COMANDO e tecle <ENTER>, para omitir a visualização das linhas de mensagens.

```
File Edit Confirm Menu Utilities Compilers Test Help
         ALUNONA.FONTES.COBOL(EXER0001) - 01.10
                                                   Columns 00001 00072
 ==MSG> -Warning- The UNDO command is not available until you change
             your edit profile using the command RECOVERY ON.
==MSG>
000100
            IDENTIFICATION DIVISION.
000200 PROGRAM-ID. EXEROBO1.
000300 AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTAÇÃO.
000400
           * GERAR ARQUIVO DE PECAS SELECIONADAS
000500
000600
                                                                      000700
ENVIRONMENT DIVISION.
000800 CONFIGURE.
SPECIAL-NAMES.
            CONFIGURATION SECTION.
```



001000	DECIMAI	L-POINT IS COMMA.	
001100	*		001200
INPUT-OUTPUT	SECTION.		
001300	FILE-CONTROL.		
001400	SELECT CADPECA	ASSIGN TO UT-S-CADPECA	001500
FILE STATUS	IS FS-CADPECA.		
001600	*		
Command ===>	RES	Scroll ===> PAGE	
F1=Help	F3=Exit F5=Rfind	F6=Rchange F12=Cancel	

Podemos observar que foram omitidas as linhas de mensagem;

File Edit	Confirm Menu Utilities Compilers Test Help	
	LUNONA.FONTES.COBOL(EXER0001) - 01.10	000100
CIDENTIFICATIO	±	000100
000200	PROGRAM-ID EXER0001.	
000300	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000400	*	
000500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONMENT	DIVISION.	
00800	CONFIGURATION SECTION.	
000900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	001200
INPUT-OUTPUT	SECTION.	
	FILE-CONTROL.	
001400		001500
	IS FS-CADPECA.	
001600		
	SELECT CADATU ASSIGN TO UT-S-CADATU	001800
	IS FS-CADATU.	
Command ===>	*****	
F1=Help	F3=Exit F5=Rfind F6=Rchange F12=Cancel	

PROFILE

Exibir o PROFILE do usuário corrente, isto é, as indicações de defaults usados para edição, para que estes valores possam ser controlados ou alterados; Digite PROFILE na linha COMANDO e tecle <ENTER>.

```
F1=Help F3=Exit F5=Rfind F6=Rchange F12=Cancel
 File Edit Confirm Menu Utilities Compilers Test Help
EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.07 Columns 00001 00072
 IDENTIFICATION DIVISION.

000200 PROGRAM-ID. EXERO001.

000300 AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.
000400 *
000500 * GERAR ARQUIVO DE PECAS SELECIONADAS
000600 *
ENVIRONMENT DIVISION.
000800 CONFIGURATION SECTION.
000900 SPECIAL-NAMES.
 000400
                                                                                 000700
```



001000	DECIMAL-POINT IS COMMA.								
001100	*			001200					
INPUT-OUTPUT	SECTION.								
001300	FILE-CONTROL.								
001400	SELECT CADPECA	ASSIGN TO	UT-S-CADPECA	001500					
FILE STATUS	IS FS-CADPECA.								
001600	*								
001700	SELECT CADATU	ASSIGN TO	UT-S-CADATU	001800					
FILE STATUS	IS FS-CADATU.								
001900									
Command ===>	PROFILE)		Scroll ===> CSR						
•									

Visualizaremos as configurações atuais do usuário corrente nas 5 primeiras linhas;

```
File Edit Confirm Menu Utilities Compilers Test Help
 EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.07
                                         Columns 00001 00072
 =PROF> ....RES (FIXED - 80)....RECOVERY OFF WARN....NUMBER ON STD........
=PROF> ....CAPS ON....HEX OFF....NULLS OFF....TABS OFF.....
 =PROF> ....AUTOSAVE OFF PROMPT....AUTONUM OFF....AUTOLIST OFF....STATS ON......
 =PROF> ....PROFILE UNLOCK...IMACRO NONE....PACK OFF....NOTE ON......
=PROF> ...HILITE COBOL FIND.....
                                                            000700
                      DECIMAL-POINT IS COMMA.
 001000
001100
                                                            001200
INPUT-OUTPUT SECTION.

001300 FILE-CONTROL.

001400 SPIROW CO
001400 SELECT CADPECA ASSIGN TO UT-S-CADPECA Command ===>
                                              Scroll ===> CSR
```

RECOVERY

Para Ativar ou Desativar o modo de recuperação, que tema finalidade de desfazer os comandos executados pelo usuário;

Digite **RECOVERY ON** na linha COMANDO e tecle <ENTER>.

File F	Edit Confirm Menu	Utilities Compilers Test Help	
EDIT		DL(EXER0001) - 01.07 Columns 00001	
TDENTTETCA		****** Top of Data **************	****** 000100
000200	PROGRAM-ID.	EXER0001.	
000300	AUTHOR.	FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000400	*		
000500	* GERAR ARQUIVO	DE PECAS SELECIONADAS	
000600	*		000700
ENVIRONMEN	NT DIVISION.		
00800	CONFIGURATION	SECTION.	



000900	SPECIAL-NAMES.			
001000	DECIMAL-PC	INT IS COMMA	A.	
001100	*			001200
INPUT-OUTPUT	SECTION.			
001300	FILE-CONTROL.			
001400	SELECT CADPECA	ASSIGN TO	UT-S-CADPECA	001500
FILE STATUS	IS FS-CADPECA.			
001600	*			
001700	SELECT CADATU	ASSIGN TO	UT-S-CADATU	001800
FILE STATUS	IS FS-CADATU.			
001900	*			
Command ===>	RECOVERY ON)		Scroll ===> CSR	

UNDO

Cancela o último comando executado, sucessivamente;

Digite na linha 000500 uma frase e tecle <ENTER>,depois digite <u>UNDO</u> na linha de COMANDO<ENTER>.

```
Scroll ===> CSR
  File Edit Confirm Menu Utilities Compilers Test Help
EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.08 Columns 00001 00072
000200
          PROGRAM-ID. EXER0001.
000300
                             _FUTURE SCHOOL CURSOS DE COMPUTACAO.
             AUTHOR.
 000400
000500 * TSO EDITOR MAINFRAME
 000600
                                                                              000700
ENVIRONMENT DIVISION.
000800 CONFIGURATION
000900 SPECIAL-NAMES.
                            SECTION.
001000
                            DECIMAL-POINT IS COMMA.
001100 *
INPUT-OUTPUT SECTION.
001300 FILE-CONTROL.
                                                                              001200
 001400
                 SELECT CADPECA ASSIGN TO UT-S-CADPECA
                                                                              001500
FILE STATUS IS FS-CADPECA.
001600 *
001700
                 SELECT CADATU ASSIGN TO UT-S-CADATU
                     FILE STATUS IS FS-CADATU.
001800
001800
001900
                                                                              002000
DATA
               DIVISION.
002100
             FILE
                             SECTION.
Command == > UNDO
                                                           Scroll ===> CSR
```

Podemos observar que foi descartada a digitação feita na linha 000500, repetindo o comando **UNDO** ele irá desfazer o comando anterior a digitação da linha e assim sucessivamente..

File Edit	Confirm Menu	Utilities	Compilers	Test	Help		
EDIT F PROGRAM-ID.	UTURE.FONTES.COBC EXER0001. AUTHOR.	L(EXER0001)				00001 00072	000200
000300	*	FUIURE SCH	OOL CURSUS	DE CO	MPUTACAO.		
000500	* GERAR ARQUIVO	DE PECAS SE	LECIONADAS				
000600	*						000700
ENVIRONMENT	DIVISION.						
000800	CONFIGURATION	SECTION.					
000900	SPECIAL-NAMES.						
001000		DECIMAL-PO	INT IS COM	MA.			
001100	*						001200
INPUT-OUTPUT	SECTION.						
001300	FILE-CONTROL.						



001400	SELECT	CADPECA	ASSIGN	TO	UT-S-CADPECA	001500
FILE STATUS	IS FS-CADPE	ECA.				
001600	*					
001700	SELECT	CADATU	ASSIGN	TO	UT-S-CADATU	001800
FILE STATUS	IS FS-CADAT	TU.				
001900	*					
002000	DATA	DIVISION.				
002100	FILE	SECTION.				
Command ===>					Scroll ===> CSR	

CANCEL

Cancelar uma edição sem salvar as alterações efetuadas; Digite

na linha de comando **CANCEL** e tecle <ENTER>.

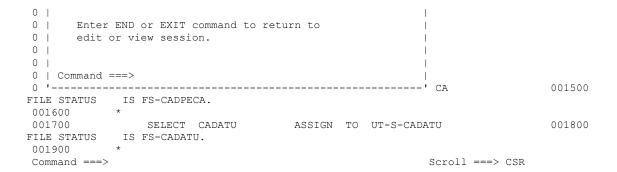
www.osasconamao.com.br/CURSOS

File	Edit	Confirm	Menu	Utilities	Compiler	s T	est	Help	
EDIT *****				,	,			Columns 00001 00072	000100
IDENTIFIC	ATION	DIVISIO	N.						
000200		PROGRAM-	ID.	EXER0001.					
000300		AUTHOR.		FUTURE SC	CHOOL CURS	OS D	E CO	MPUTACAO.	
000400		*							
000500		* GERAR A	RQUIVO	DE PECAS S	ELECIONAL	AS			
000600		*							000700
ENVIRONME	NT	DIVISIO	N.						
00800		CONFIGUR	ATION	SECTION.					
000900		SPECIAL-	NAMES.						
001000				DECIMAL-F	POINT IS C	OMMA			
001100		*							001200
INPUT-OUT	PUT	SECTION							
001300		FILE-CON	TROL.						
001400		SELE	CT CA	.DPECA	ASSIGN	TO	UT-	S-CADPECA	001500
FILE STAT	US	IS FS-CA	DPECA.						
001600		*							
001700		SELE	CT CA	.DATU	ASSIGN	TO	UT-	S-CADATU	
001800			FI	LE STATUS	IS FS-C	ADAT	U.		001900
*									
Command	=={ >	CANCEL)					Scroll ===> CSR	
			/						

Será pedida uma confirmação de cancelamento, pois todas as alterações feitas serão perdidas.

Caso queira cancelar tecle <ENTER>, caso não queira perder aos alterações tecle <F3>.





LOCATE

Para localizar digite L 3500 e tecle <ENTER>. O TSO localizará o LINHA 003500.

File Edit	Confirm Menu Utilities	Compilers '	Test Help		
EDIT E	UTURE.FONTES.COBOL(EXER0001)) - 01.07	Co	lumns 00001 00072	000200
	AUTHOR. FUTURE SCI	TOOT CUDCOC	DE COMPIENA	77.0	
000300	*	HOOL CURSOS I	DE COMPUTA	JAU.	
000400		ZI.ECTONADAS			
000500	*	EDECIONADAS			000700
ENVIRONMENT	DIVISION.				000700
000800	CONFIGURATION SECTION.				
000900	SPECIAL-NAMES.				
001000	DECIMAL-PO	OINT IS COMM	Α.		
001100	*				001200
INPUT-OUTPUT	SECTION.				
001300	FILE-CONTROL.				
001400	SELECT CADPECA	ASSIGN TO	UT-S-CAD	PECA	001500
	IS FS-CADPECA.				
001600	*				
	SELECT CADATU	ASSIGN TO	UT-S-CAD	UTA	001800
	IS FS-CADATU.				
. 001900	*				
002000	DATA DIVISION.				
002100 Command ===>	FILE SECTION.			Scroll ===> CSR	
Command				001011 -> CDK	

Podemos observar que foi localizada linha 003500.

```
File Edit Confirm Menu Utilities Compilers Test Help

EDIT FUTURE.FONTES.COBOL(EXERO001) - 01.07 Columns 00001 00072 003500 05 PR-UNITARIO PIC 9(07)V99.

003600 05 PERDA PIC 9(07)V99.
003700 05 TIPO PIC X(01).
003800 05 FILLER PIC X(06).
003900 *
004000 FD CADATU 004100 RECORD CONTAINS 80 CHARACTERS
```

www.osasconamao.com.br/CURSOS



004200		REC	ORDING MODE	IS	F				
004300		LAB	EL RECORI) IS	STANDARD				004400
DATA	RECORD		IS REG-CADA	ľU.					
004500	01	REG	-CADATU.						
004600		05	COD-ATU		PIC	9(05).			
004700		05	NOME-ATU		PIC	X(30).			
004800		05	QTD-ATU		PIC	9(05).			
004900		05	QTD-MIN-ATU		PIC	9(05).			
005000		05	QTD-MAX-ATU		PIC	9(05).			
005100		05	FORN-ATU		PIC	X(05).			
005200		05	PR-UNIT-ATU		PIC	9(07)V99.			
005300		05	PERDA-ATU		PIC	9(07)V99.			
005400		05	TIPO-ATU		PIC	X(01).			
Command =	==>						Scroll ===>	CSR	

SAVE

Para salvar as alterações efetuadas em um arquivo;

Digite na linha de comando **SAVE** e tecle <ENTER>.

```
File Edit Confirm Menu Utilities Compilers Test Help
 EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.07 No more to UNDO
                                                                    No more to UNDO 000200
PROGRAM-ID. EXER0001. 000300 AUTHOR.
 000300
                                FUTURE SCHOOL CURSOS DE COMPUTAÇÃO.
 000400
000400 *
000500 * GERAR ARQUIVO DE PECAS SELECIONADAS
000600 *
ENVIRONMENT DIVISION.
000800 CONFIGURATION SECTION.
000900 SPECIAL-NAMES.
                                                                                         000700
001000
001100 *
INPUT-OUTPUT SECTION.
                                DECIMAL-POINT IS COMMA.
                                                                                         001200
 001300 FILE-CONTROL.
001400 SELECT CADPECA ASSIGN TO UT-S-CADPECA
                                                                                        001500
FILE STATUS IS FS-CADPECA.

001600 *

001700 SELECT CAD
              * SELECT CADATU
                                           ASSIGN TO UT-S-CADATU
 001800
                       FILE STATUS IS FS-CADATU.
 001900
                            DIVISION.
                DATA
002000
               FILE
 002100
                                SECTION.
Command === SAVE
                                                                   Scroll ===> CSR
```

Podemos observar que foi salvo o EXER0001, através da mensagem na tela.

```
File Edit Confirm Menu Utilities Compilers Test Help

EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.07 Member EXER0001 saved 000200

PROGRAM-ID. EXER0001.

000300 AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.

000400 *

000500 * GERAR ARQUIVO DE PECAS SELECIONADAS
```



000600	*					000700
ENVIRONMENT	DIVISION.					
000800	CONFIGURATION	SECTION.				
000900	SPECIAL-NAMES.					
001000		DECIMAL-PC	INT IS C	OMMA	•	
001100	*					001200
INPUT-OUTPUT	SECTION.					
001300	FILE-CONTROL.					
001400	SELECT CAD	PECA	ASSIGN	TO	UT-S-CADPECA	001500
FILE STATUS	IS FS-CADPECA.					
001600	*					
001700	SELECT CAD	ATU	ASSIGN	TO	UT-S-CADATU	001800
FILE STATUS	IS FS-CADATU.					
001900	*					002000
DATA	DIVISION.					
002100	FILE	SECTION.				
Command ===>					Scroll ===> CS	R

FIND (F)

Para procurar um conjunto específico de caracteres no arquivo;

Digite na linha de comando $\underline{\mathbf{F}}$ + (a literal a ser procurada) e tecle <ENTER>.

	File	Edit	Confirm	Menu	Utiliti	es	Compile	rs	Test	Не	lp			
			JTURE.FONT											
			IDENTIFIC				p or back	_						
00	0200		PROGRAM-	ID.	EXER00	01.								
00	0300		AUTHOR.		FUTURE	SC	HOOL CUR	SOS	DE CC	MPU	TACAO	•		
00	0400		*											
00	0500		* GERAR A	RQUIVO	DE PECA	S S	ELECIONA	DAS						
00	0600		*											000700
	TRONM	IENT	DIVISIO	N.										
00	0800		CONFIGUR	ATION	SECTIO	Ν.								
00	0900		SPECIAL-	NAMES.										
	1000				DECIMA	L-P	OINT IS	COMM	Α.					
	1100													001200
			SECTION											
			FILE-CON											
	1400		SELE		DPECA		ASSIGN	TO	UT-	S-C	ADPEC	A		001500
		TUS	IS FS-CA	DPECA.									001700	
	1600			70.	COTON	ШΟ	TIM 0 0	N ID 70 III					001700	
			.TU IS FS-CA		.551GN	TO	01-5-C	ADA'I	U				001800	1
	1900	1103	15 F5-CF	DAIU.										
		== = > I	PIC								Scr	oll ===>	> CSR	

Constatamos que o cursor foi posicionado no 1º PIC encontrado no programa, para ir para o próximo PIC tecle <PF5> essa tecla de atalho visualiza todos PIC de 1 em 1.



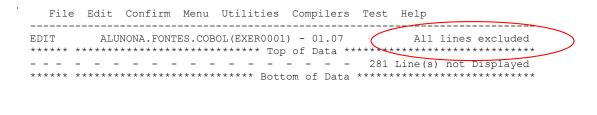
File	Edit Con	firm	Menu	Utilitie	s C	Compi	lers	Test	Help			
EDIT	FUTURE -CADPECA.	.FONT	ES.COB	OL (EXEROO	01)	- 91	.07		СНА	RS 'PIC	C' found	002800
002900		05	COD-PE	CA		/ +	PIC	9(05).	\			
003000		05	NOME-P	ECA			PIC	X(30).	\			
003100		05	QTD-PE	CA			PIC	9(05).	1			
003200		05	QTD-MI	NIMA			PIC	9(05).				
003300		05	QTD-MA	XIMA			PIC	9(05).				
003400		05	FORNEC	EDOR		1	PIC	X(05).	- 1			
003500		05	PR-UNI	TARIO		\	PIC	9(07)V	99.			
003600		05	PERDA			\	PIC	9(07)V	99. /			
003700		05	TIPO				PIC	X(01).	/			
003800		05	FILLER				PIC	X(06).				
003900	*											
004000	FD	CADA	TU				_					
004100		RECO	RD	CONTAINS	80	CHA	RACTE	RS				
004200		RECO	RDING	MODE	IS	F						
004300		LABE		RECORD	IS	STA	NDARD					004400
DATA	RECORD	I	S REG	-CADATU.								
004500	01	REG-	CADATU									
004600			COD-AT	U			PIC	9(05).				
004700		05	NOME-A	ΓU			PIC	X(30).				
Command	===>								Scr	oll ===	=> CSR	

X ALLUsado para exibir linhas com conteúdo específico. Digite na linha de comando <u>**X ALL**</u> e tecle <ENTER>.

File F	Edit Confirm	Menu Utilities	Compilers 5	Test Help	
EDIT		,	,	Columns 00001 00	
IDENTIFICA	ATION DIVISIO	ON.	±		
000200	PROGRAM-	-ID. EXER0001	. •		
000300	AUTHOR.	FUTURE S	CHOOL CURSOS I	DE COMPUTACAO.	
000400	*				
000500	* GERAR A	ARQUIVO DE PECAS	SELECIONADAS		
000600	*				000700
ENVIRONME	NT DIVISIO	ON.			
00800	CONFIGUE	RATION SECTION.			
000900	SPECIAL-	-NAMES.			
001000		DECIMAL-	POINT IS COMMA	A.	
001100	*				001200
INPUT-OUT	PUT SECTION	Ν.			
001300	FILE-CON	NTROL.			
001400	SELE	ECT CADPECA	ASSIGN TO	UT-S-CADPECA	001500
	US IS FS-CA	ADPECA.			
001600	*	_			
001700	SELE	ECT CADATU	ASSIGN TO	UT-S-CADATU	
Command ==		<i>)</i>		Scroll ===> PA	4GE
F1=Help	F3=Exit	F5=Rfind	F6=Rchange	F12=Cancel	

Podemos observar que foram omitidas todas as linhas do programas, não foram excluídas apenas não estão sendo exibidas .





```
Command ===> Scroll ===> PAGE F1=Help F3=Exit F5=Rfind F6=Rchange F12=Cancel
```

O comando **X ALL**, como descrito enibe a exibição de todas as linhas, para visualizar as linhas com a literal desejada utilizamos o comando **FIND LITERAL ALL**. Para exibir as linhas que contenham uma literal exemplo;

Selecionemos então as linhas de contenham a literal CADATU, digite o comando <u>F CADATU</u> ALL e tecle <ENTER>.





Na tela temos apenas as linhas que contêm a literal CADATU, para visualizar as próximas telas basta teclar <PF8>. Para apresentar todas as linhas novamente digite na linha de commando RES e tecle <Enter>.

File Edit Confirm Menu Utilities Compilers Test Help	
EDIT ALUNONA.FONTES.COBOL(EXER0001) - 01.07 19 CHARS 'CADATU' ***** *******************************	
	001800
21 Line(s) not Displayed 004000 FD CADATU	
3 Line(s) not Displayed DATA RECORD IS REG-CADATU. 004500 01 REG-CADATU.	004400
26 Line(s) not Displayed 77 FS-CADATU PIC X(02) VALUE SPACES.	007200
32 Line(s) not Displayed OUTPUT CADATU.	010500
11 Line(s) not Displayed PERFORM 001-03-FS-CADATU.	011700
18 Line(s) not Displayed 001-03-FS-CADATU SECTION.	013600
2 Line(s) not Displayed Command ===> Scroll ===> PAGE	
F1=Help F3=Exit F5=Rfind F6=Rchange F12=Cancel	

CHANGE (CHG) Para procurar e alterar um conjunto específico de caracteres no texto;

Digite na linha de comando **CHG** CADPECA CADALUNO ALL e tecle <ENTER>.

File F	Edit Confirm Menu Utilities Compilers Test Help	
EDIT *****		000100
IDENTIFICA	ATION DIVISION.	
000200	PROGRAM-ID. EXER0001.	
000300	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000400	*	
000500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONME	NT DIVISION.	
00800	CONFIGURATION SECTION.	
000900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	001200
INPUT-OUT	PUT SECTION.	
001300	FILE-CONTROL.	
001400		001500
	US IS FS-CADPECA.	
001600	*	
001700		001800
FILE STATE		
	=== CHG CADPECA CADALUNO ALL Scroll ===> CSR F1	=Help
F3=Exit	F5 =Rfind F6=Rchange F12=Cancel	



Podemos observar que todas as literais CADPECA foram alteradas para CADALUNO.

```
File Edit Confirm Menu Utilities Compilers Test Help
EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.08 CHARS 'CADPECA' changed
 DIVISION.

000200 PROGRAM-ID. EXERO001.

000300 AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.

000400 *

000500 * GERAR ARQUIVO DE PECAS SELECIONADAS

000600 *

ENVIRONMENTO --
                                                                                 000700
ENVIRONMENT DIVISION.

000800 CONFIGURATION SECTION.

000900 SPECIAL-NAMES.
001000
001100 *
                              DECIMAL-POINT IS COMMA.
                                                                                 001200
INPUT-OUTPUT SECTION.
              FILE-CONTROL.
 001300
 =CHG> SELECT CADALUNO ASSIGN TO UT-S-CADALUNO CHG> FILE STATUS IS FS-CADALUNO.
==CHG>
001600
        SELECT CADATU
001800 FILE STATUS IS FS-CADATU.

Command ===>
                                         ASSIGN TO UT-S-CADATU
001800
                                                              Scroll ===> CSR
F1=Help F3=Exit
                        F5=Rfind F6=Rchange F12=Cancel
```

Agora vamos fazer o comando CHANGE sem a opção all.

Tecle <PF5> essa tecla de atalho visualiza todos cadaluno de 1 em 1 sem alterar.

File E	dit Confirm Menu Utilities Compilers Test Help	
EDIT	ALUNONA.FONTES.COBOL(EXER0001) - 01.14 Columns 00001 00072	000001
IDENTIFICA'	TION DIVISION.	
000002	PROGRAM-ID. EXER0001.	
000003	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000004	*	
000005	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000006	*	000007
ENVIRONMEN'	T DIVISION.	
	CONFIGURATION SECTION.	
	SPECIAL-NAMES.	
000010	DECIMAL-POINT IS COMMA.	
000011	*	000012
INPUT-OUTP	UT SECTION.	
000013	FILE-CONTROL.	
000014	SELECT CADPECA ASSIGN TO UT-S-CADPECA	000015
FILE STATU	S IS FS-CADPECA.	
000016	*	
000017	SELECT CADATU ASSIGN TO UT-S-CADATU	
000018	FILE STATUS IS FS-CADATU.	
000019	*	
Command ==	=> CHG CADPECA CADALUNO Scroll ===> CSR	



Podemos observar que todas as literais CADPECA não são alteradas para CADALUNO quando teclamos PF5.

```
File Edit Confirm Menu Utilities Compilers Test Help
EDIT ALUNONA.FONTES.COBOL(EXERO001) - 01.15 CHARS 'CADPECA' found
 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. EXER0001.
000003 AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.
000007
000010
                      DECIMAL-POINT IS COMMA.
                                                            000012
INPUT-OUTPUT SECTION.
000013 FILE-CONTROL.
000014
             SELECT CADALUNO ASSIGN TO UT-S-CADPECA
                                                            000015
FILE STATUS IS FS-CADPECA.
000016 *
000017
             SELECT CADATU ASSIGN TO UT-S-CADATU
                 FILE STATUS IS FS-CADATU.
000018
000019
Command ===>
                                              Scroll ===> CSR
```

CHANGE sem a opção all.

Tecle <PF6> essa tecla de atalho visualiza todos cadaluno de 1 em 1 alterando-os.

File Edit Confirm Menu Utilities Compilers Test Help	
EDIT ALUNONA.FONTES.COBOL(EXER0001) - 01.14 Columns 00001 00072	000001
IDENTIFICATION DIVISION.	
000002 PROGRAM-ID. EXER0001.	
000003 AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000004 *	
000005 * GERAR ARQUIVO DE PECAS SELECIONADAS	
000006 *	000007
ENVIRONMENT DIVISION.	
000008 CONFIGURATION SECTION.	
000009 SPECIAL-NAMES.	
000010 DECIMAL-POINT IS COMMA.	
000011 *	000012
INPUT-OUTPUT SECTION.	
000013 FILE-CONTROL.	
000014 SELECT CADPECA ASSIGN TO UT-S-CADPECA	000015
FILE STATUS IS FS-CADPECA.	
000016 *	
000017 SELECT CADATU ASSIGN TO UT-S-CADATU	000018
FILE STATUS IS FS-CADATU.	
000019	
Command ===> SHG CADPECA CADALUNO Scroll ===> CSR	
File Edit Confirm Menu Utilities Compilers Test Help	
Scroll ===> CSR	



Podemos observar que as literais CADPECA são alteradas para CADALUNO quando teclamos PF6,uma a uma.

HEX

Usado para ligar ou desligar o modo de exibição das linhas no formato hexadecimal.

Digite na linha de comando **HEX ON** e tecle <ENTER>.

File	Edit	Confirm	Menu	Utilities	Compiler	s T	est	Help	
EDIT *****								Columns 00001 00072	000100
		DIVISIO			op or baco				000100
000200		PROGRAM-	ID.	EXER0001	•				
000300		AUTHOR.		FUTURE SO	CHOOL CURS	OS D	E CO	MPUTACAO.	
000400		*							
000500		* GERAR A	RQUIVO	DE PECAS S	SELECIONAL	AS			
000600		*							000700
ENVIRONM	ENT	DIVISIO	N.						
000800		CONFIGUR	ATION	SECTION.					
000900		SPECIAL-	NAMES.						
001000				DECIMAL-1	POINT IS C	AMMO:	•		
001100									001200
INPUT-OU		SECTION							
001300		FILE-CON	TROL.						
001400				OPECA	ASSIGN	TO	UT-	S-CADPECA	001500
		IS FS-CA	DPECA.						
001600		*							
001700				DATU	ASSIGN	TO	UT-	S-CADATU	001800
FILE STA		IS FS-CA	DATU.						
Command								Scroll ===> CSR	
F1=Help	F	'3=Exit	F5=1	Rfind :	F6=Rchange	F1	2=Ca	ncel	



.

Podemos observar o programa em código hexadecimal.

File Edit Confirm Menu Utilities Compilers Test Help	
EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.08 Columns 00001 00072	
IDENTIFICATION DIVISION.	000100
4444444CCCDECCCCECDD44CCECECDD4444444444	000000
PROGRAM-ID. EXERO001. 4444444DDDCDCD6CC4444444CECDFFFF44444444444444444444444	000200
AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO. 4444444CEECDD444444444CEEEDC4ECCDDD4CEDEDE4CC4CDDDEECCCD44444444	000300
000400 * 4444445444444444444444444444444	
Command ===> CSR	

Digite na linha de comando <u>HEX OFF</u> e tecle <ENTER>.

File Edit Confirm Menu Utilities Compilers Test Help	
EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.08 Columns 00001 00072	·
	000100
IDENTIFICATION DIVISION. 444444CCCDECCCCCCCDD44CCECECDD44C44444444	1
0000000945539693139650049592965B000000000000000000000000000000000000	="
PROGRAM-ID. EXER0001.	000200
4444444DDDCDCD6CC444444CECDFFFF444444444444444444444444)
AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	000300
4444444CEECDD444444444444CEEEDC4ECCDDD4CEDEDE4CC4CDDDEECCCD44444444	="
000400 *	
4444445444444444444444444444444444444	=
Command ===> HEX OFF Scroll ===> CSR	
F1=Help F3-Exit F5=Rfind F6=Rchange F12=Cancel	



Podemos observar o programa em linguagem COBOL novamente.

```
File Edit Confirm Menu Utilities Compilers Test Help
 EDIT FUTURE.FONTES.COBOL(EXERO001) - 01.08 Columns 00001 00072
 ***** ************** Top of Data *********************** 000100
IDENTIFICATION DIVISION.
 000200 PROGRAM-ID. EXER0001.
000300 AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.
PROGRAM-ID. EXERO001.

000300 AUTHOR. FUTURE SCHOOL CURSOS

000400 *

000500 * GERAR ARQUIVO DE PECAS SELECIONADAS

000600 *

ENVIRONMENT DIVISION.

000800 CONFIGURATION SECTION.

000900 SPECIAL-NAMES.

001000 DECIMAL-DOINE IS COM-
                                                                                          000700
001000
                                 DECIMAL-POINT IS COMMA.
                                                                                          001200
                 SELECT CADPECA ASSIGN TO UT-S-CADPECA
                                                                                          001500
                   SELECT CADATU ASSIGN TO UT-S-CADATU
                                                                                          001800
                                                                     Scroll ===> CSR
 Command ===>
              F3=Exit F5=Rfind F6=Rchange F12=Cancel
  F1=Help
```

Comandos de numeração

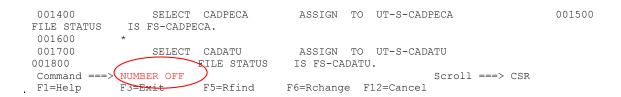
NUMBER

Liga ou desliga a facilidade de numeração de linhas;

Digite na linha de comando NUMBER e tecle <ENTER>.

File Edit	Confirm Menu Utilities Compilers Test Help	
IDENTIFICATIO	ON DIVISION.	
000200	PROGRAM-ID. EXERO001.	
000300	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000400	*	
000500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONMENT	DIVISION.	
00800	CONFIGURATION SECTION.	
000900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	001200
INPUT-OUTPUT	SECTION.	
001300	FILE-CONTROL.	





Podemos observar que a numeração das linhas foram alteradas..

File Edit	Confirm Menu Utilities Compilers Test Help	
	FUTURE.FONTES.COBOL(EXERO001) - 01.08 Columns 00001 000° *********************************	
000004 000005 000006 ENVIRONMENT 000008 000009	* * GERAR ARQUIVO DE PECAS SELECIONADAS * DIVISION. CONFIGURATION SECTION. SPECIAL-NAMES.	000007
000010 000011	DECIMAL-POINT IS COMMA.	000012
INPUT-OUTPUT 000013 000014 FILE STATUS	SECTION. FILE-CONTROL. SELECT CADPECA ASSIGN TO UT-S-CADPECA IS FS-CADPECA. *	000015
000016 000017 FILE STATUS Command ===>	SELECT CADATU ASSIGN TO UT-S-CADATU IS FS-CADATU.	000018
	F3=Exit F5=Rfind F6=Rchange F12=Cancel	3.

RENUM

Para ligar a facilidade de numeração de linhas e renumerá-las; Digite

na linha de comando **RENUM** e tecle <ENTER>.

File Edit	Confirm Menu U	tilities Compilers Test Help	
	**************************************	L(EXERO001) - 01.08 Columns 00001 00072 ****** Top of Data **********************************	
000003 000004 000005 000006 ENVIRONMENT 000008	AUTHOR. * * GERAR ARQUIVO * DIVISION. CONFIGURATION	FUTURE SCHOOL CURSOS DE COMPUTACAO. DE PECAS SELECIONADAS SECTION.	000007



000009	SPECIAL-NAMES.		
000010	DECIMAL-E	POINT IS COMMA.	
000011	*		000012
INPUT-OUTPUT	SECTION.		
000013	FILE-CONTROL.		
000014	SELECT CADPECA	ASSIGN TO UT-S-CADPECA	000015
FILE STATUS	IS FS-CADPECA.		
000016	*		
000017	SELECT CADATU	ASSIGN TO UT-S-CADATU	000018
FILE STATUS	IS FS-CADATU.		
Command ===	TENOTI /	Scroll ===> CSR	
F1=Help	F3=Exit F5=Rfind	F6=Rchange F12=Cancel	

Podemos observar que a numeração das linhas foram alteradas.

```
File Edit Confirm Menu Utilities Compilers Test Help
  EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.08 Columns 00001 00072
          DENTIFICATION DIVISION.
 000200
000300
000400
000500
000600
              PROGRAM-ID. EXERO001.

AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.
* GERAR ARQUIVO DE PECAS SELECIONADAS

* GERAR ARQUIVO DE PECAS SELECIONADAS

* DIVISION.

* CONFIGURATION SECTION.

* O00900

* O01000

* O01000
                                                                                                          000700
000900 DECIMAL-POINT IS COMMA.

001100 *
INPUT-OUTPUT SECTION.

001300 FILE-CONTROL.

001400 SELECT CADPECA ASSIGN TO UT-S-CADPECA

FILE STATUS IS FS-CADPECA.

001600 *

001700 SELECT CADATU ASSIGN TO UT-S-CADATU

FILE STATUS IS FS-CADATU.
                                                                                                          001200
                        SELECT CADPECA ASSIGN TO UT-S-CADPECA
                                                                                                          001500
 SELECT CADATU
FILE STATUS IS FS-CADATU.
Command ===>
                                                                                                          001800
                                                                                  Scroll ===> CSR
 F1=Help F3=Exit F5=Rfind F6=Rchange F12=Cancel
```

Overlay

Repetição especial;

OO (duas letras O) indica a primeira e a última linha de um bloco a ser mergeado;

Um exemplo prático, caso você queira comentar varias linhas.

Digite <u>C</u> na linha que contém o asterisco na coluna 7 ex: 000400, após digite <u>OO</u> na linha 001200 e <u>OO</u> na linha 001500 e teclar <ENTER>.



000200	PROGRAM-ID. EXER0001.	
000300	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
00C400	*	
000500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONMENT	DIVISION.	
000800	CONFIGURATION SECTION.	
000900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	000000
INPUT-OUTPUT	SECTION.	
001300	FILE-CONTROL.	
001400	SELECT CADPECA ASSIGN TO UT-S-CADPECA	000000
FILE STATUS	IS FS-CADPECA.	
001600	*	
001700	SELECT CADATU ASSIGN TO UT-S-CADATU	001800
FILE STATUS	IS FS-CADATU.	
001900	*	
Command ===>	Scroll ===> CSR	

Podemos observar que o conteúdo da linha 000400 foi repetido para as linhas do bloco marcado sem alterar o conteúdo inicial do mesmos.

File Edi	t Confirm Menu Utilities Compilers Test Help	
	ALUNONA.FONTES.COBOL(EXER0001) - 01.12 Columns 00001 00072	
000100	IDENTIFICATION DIVISION.	
000200	PROGRAM-ID. EXERO001.	
000300	AUTHOR. FUTURE SCHOOL CURSOS DE COMPUTACAO.	
000400	*	
000500	* GERAR ARQUIVO DE PECAS SELECIONADAS	
000600	*	000700
ENVIRONMENT	DIVISION.	
000800	CONFIGURATION SECTION.	
000900	SPECIAL-NAMES.	
001000	DECIMAL-POINT IS COMMA.	
001100	*	001200
*INPUT-OUTPU		
001300	*FILE-CONTROL.	
001400	* SELECT CADPECA ASSIGN TO UT-S-CADPECA	001500
*	FILE STATUS IS FS-CADPECA.	
001600	*	
001700	SELECT CADATU ASSIGN TO UT-S-CADATU	001800
FILE STATUS	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
001900	* /	
Command ===>	Scroll ===> CSR	

Parabéns você está apto para fazer a 3º aula.

