



2º AULA

Introdução ao TSO

Comandos básicos

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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 tecla <ENTER>.

```

OPTION ===> P          CUSTOMPAC MASTER APPLICATION MENU          SCROLL ===> CSR
                                USERID - ALUNOJ3
                                TIME   - 21:47

IS  ISMF      - Interactive Storage Management Facility
P   PDF       - ISPF/Program Development Facility
IP  IPCS      - Interactive Problem Control Facility
OS  SUPPORT   - OS/390 ISPF System Support Options
OU  USER     - OS/390 ISPF User Options
SM  SMP/E     - SMP/E Dialogs
IC  ICSF     - Integrated Cryptographic Service Facility
SD  SDSF     - System Display and Search Facility
R   RACF     - Resource Access Control Facility
HC  HCD      - 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)
X   EXIT     - Terminate ISPF using list/log defaults

F1=HELP      F2=SPLIT    F3=END      F4=RETURN   F5=RFIND    F6=RCHANGE
F7=UP        F8=DOWN     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 tecla <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
11 Workplace   ISPF Object/Action Workplace

Enter X to Terminate using log/list defaults

Option ===> 3
F1=Help      F3=Exit      F10=Actions  F12=Cancel
  
```

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

```

Menu Help
-----
                          Utility Selection Panel

1  Library      Compress or print data set.  Print index listing.  Print,
                  rename, delete, browse, edit or view members
2  Data Set     Allocate, rename, delete, catalog, uncatalog, or display
                  information of an entire data set
3  Move/Copy    Move, copy, or promote members or data sets
4  Dslist       Print or display (to process) list of data set names.
                  Print or display VTOC information
5  Reset        Reset statistics for members of ISPF library
6  Hardcopy     Initiate hardcopy output
7  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-ForE Search data sets for strings of data Extended (Extended Dialog)
Option ==> 4

F1=Help      F3=Exit      F10=Actions  F12=Cancel

```

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

```

Menu RefList RefMode Utilities Help
-----
                          Data Set List Utility

blank Display data set list          P Print data set list
  V Display VTOC information          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
                    3. Attrib          / 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 visualizarmos o conteúdo da biblioteca digite no lado esquerdo da biblioteca a letra **E** e teclé <ENTER>, a letra E corresponde à Edit.

```

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

```

```

Command ==>
F1=Help    F3=Exit    F5=Rfind   F12=Cancel

Scroll ==> PAGE

```

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      FUTURE.FONTES.COBOL                               Row 00001 of 00032
Name      Prompt      VV MM    Changed    Size  Init  Mod  ID
-----
ALOCAARQ  01.05 08/10/04 14:17  116  207   0  IBMUSER
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 ==>
F1=Help    F3=Exit    F10=Actions  F12=Cancel

Scroll ==> PAGE

```

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.FONTES.COBOL                      Row 00001 of 00032
Name          Prompt          VV MM    Changed    Size  Init  Mod  ID
-----
  E  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
  E  EXER0002    01.05 08/08/06 18:18  286  198   0  IBMUSER
  E  EXER0003    01.00 08/08/06 18:45  278  278   0  IBMUSER
  E  EXER0004    01.00 08/08/06 18:48  278  278   0  IBMUSER
  E  EXER0005
  E  EXER0006    01.00 02/05/08 06:18  374  374   0  IBMUSER
  E  EXER0007
  E  EXER0008    01.03 09/12/05 10:51  370  381   0  IBMUSER
  E  EXER0009    01.00 08/06/04 20:35  393  393   0  IBMUSER
  E  EXER0010
  E  EXER0011    01.00 09/08/26 19:41  514  514   0  IBMUSER
  E  EXER0012    01.01 08/08/06 17:55  571  571   0  IBMUSER
  E  EXER0013    01.00 08/09/20 15:35  434  434   0  IBMUSER
  E  EXER0014    01.00 09/08/12 21:03  446  446   0  IBMUSER
  E  EXER0015    01.03 09/07/27 19:34  710  708   0  IBMUSER
  E  EXER0016
  E  EXER0017    01.02 09/08/26 21:14  478  485   0  IBMUSER
Command =====>                               Scroll =====> PAGE
F1=Help          F3=Exit          F10=Actions      F12=Cancel

```

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
***** ***** Top of Data *****
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.
Command =====>                               Scroll =====> CSR
F1=Help          F3=Exit          F5=Rfind          F6=Rchange      F12=Cancel

```

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
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
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-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 ==>
F1=Help    F3=Exit    F5=Rfind    F6=Rchange  F12=Cancel          Scroll ==> CSR

```

Constatamos abaixo que a linha 000300 foi deletada.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
000200    PROGRAM-ID.      EXER0001.
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-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 ==>
F1=Help    F3=Exit    F5=Rfind    F6=Rchange  F12=Cancel          Scroll ==> CSR

```


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 Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
000200    PROGRAM-ID.      EXER0001.
D50300    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-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
  
```

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
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
000200    PROGRAM-ID.      EXER0001.
000800    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    *
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
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 DD na linha 000200 (início) e na linha DD 0001200 (fim) e teclamos <ENTER>.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION DIVISION.
DD0200    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-POINT IS COMMA.
001100    *
DD01200   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 ==>
F1=Help      F3=Exit      F5=Rfind      F6=Rchange  F12=Cancel      Scroll ==> CSR

```

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION DIVISION.
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    *
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 ==>
F1=Help      F3=Exit      F5=Rfind      F6=Rchange  F12=Cancel      Scroll ==> CSR

```


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
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
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-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
```

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

```
File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
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 Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
RR0100    IDENTIFICATION  DIVISION.
000200    PROGRAM-ID.      EXER0001.
000300    AUTHOR.          FUTURE SCHOOL CURSOS DE COMPUTACAO.
RR0400    *
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.
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 000100 e termino na linha 000400 foi repetido.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
000200    PROGRAM-ID.      EXER0001.
000300    AUTHOR.          FUTURE SCHOOL CURSOS DE COMPUTACAO.
000400    *
000410    IDENTIFICATION  DIVISION.
000420    PROGRAM-ID.      EXER0001.
000430    AUTHOR.          FUTURE SCHOOL CURSOS DE COMPUTACAO.
000440    *
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.
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
  
```

RR2 Indica a início 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(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
RR2100    IDENTIFICATION  DIVISION.
000200    PROGRAM-ID.      EXER0001.
000300    AUTHOR.          FUTURE SCHOOL CURSOS DE COMPUTACAO.
RR2400    *
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.
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 Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
000200    PROGRAM-ID.      EXER0001.
000300    AUTHOR.          FUTURE SCHOOL CURSOS DE COMPUTACAO.
000400    *
000410    IDENTIFICATION  DIVISION.
000420    PROGRAM-ID.      EXER0001.
000430    AUTHOR.          FUTURE SCHOOL CURSOS DE COMPUTACAO.
000440    *
000450    IDENTIFICATION  DIVISION.
000460    PROGRAM-ID.      EXER0001.
000470    AUTHOR.          FUTURE SCHOOL CURSOS DE COMPUTACAO.
000480    *
000500    * GERAR ARQUIVO DE PECAS SELECIONADAS
000600    *
000700    ENVIRONMENT     DIVISION.
000800    CONFIGURATION    SECTION.
000900    SPECIAL-NAMES.
001000                                DECIMAL-POINT IS COMMA.
Command ==>                                Scroll ==> CSR
F1=Help   F3=Exit   F5=Rfind   F6=Rchange F12=Cancel
  
```

3.0 Cópia de linha;

C Indica que a linha corrente será copiada;
 Digite **C** na linha 000300 e **A** 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
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100      IDENTIFICATION  DIVISION.
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-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 ==>
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
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100      IDENTIFICATION  DIVISION.
000200      PROGRAM-ID.      EXER0001.
000300      AUTHOR.          FUTURE SCHOOL CURSOS DE COMPUTACAO.
000400      *
000410      AUTHOR.          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      *
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
Command ==>
F1=Help      F3=Exit      F5=Rfind      F6=Rchange  F12=Cancel
  
```

C3 Indica que a linha corrente será copiada 3 vezes;
 Digite **C** na linha 000100 e **A** na linha 000400 e teclar <ENTER>.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
C30100    IDENTIFICATION DIVISION.
000200    PROGRAM-ID.      EXER0001.
000300    AUTHOR.         FUTURE SCHOOL CURSOS DE COMPUTACAO.
A00400    *
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.
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 foram copiadas as 3 linhas marcadas anteriormente.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION DIVISION.
000200    PROGRAM-ID.      EXER0001.
000300    AUTHOR.         FUTURE SCHOOL CURSOS DE COMPUTACAO.
000400    *
000410    IDENTIFICATION DIVISION.
000420    PROGRAM-ID.      EXER0001.
000430    AUTHOR.         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    *
001200    INPUT-OUTPUT   SECTION.
001300    FILE-CONTROL.
001400          SELECT  CADPECA      ASSIGN TO UT-S-CADPECA
001500          FILE STATUS      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 **CC** na linha 00100 , **CC** na linha 000400 e **A** na linha 000900 e teclar <ENTER>.

```
File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
CC0100    IDENTIFICATION DIVISION.
000200    PROGRAM-ID.      EXER0001.
000300    AUTHOR.        FUTURE SCHOOL CURSOS DE COMPUTACAO.
CC0400    *
000500    * GERAR ARQUIVO DE PECAS SELECIONADAS
000600    *
000700    ENVIRONMENT   DIVISION.
000800    CONFIGURATION  SECTION.
A00900    SPECIAL-NAMES.
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 ==>
F1=Help   F3=Exit   F5=Rfind   F6=Rchange F12=Cancel
Scroll ==> CSR
```

Podemos observar o bloco marcado com início **CC** linha 100 e o **CC** fim linha 400 foi copiado após a linha 900.

```
File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION DIVISION.
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.
000910    IDENTIFICATION DIVISION.
000920    PROGRAM-ID.      EXER0001.
000930    AUTHOR.        FUTURE SCHOOL CURSOS DE COMPUTACAO.
000940    *
001000    *
001100    *
001200    INPUT-OUTPUT SECTION.
001300    FILE-CONTROL.
001400    SELECT CADPECA   ASSIGN TO UT-S-CADPECA
Command ==>
F1=Help   F3=Exit   F5=Rfind   F6=Rchange F12=Cancel
Scroll ==> CSR
```

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT          FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
***** ***** Top of Data *****
000100        IDENTIFICATION DIVISION.
M00200        PROGRAM-ID.          EXER0001.
000300        AUTHOR.             FUTURE SCHOOL CURSOS DE COMPUTACAO.
A00400        *
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.
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 ==>
F1=Help      F3=Exit      F5=Rfind      F6=Rchange  F12=Cancel          Scroll ==> CSR
  
```

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
***** ***** Top of Data *****
000100        IDENTIFICATION DIVISION.
000300        AUTHOR.             FUTURE SCHOOL CURSOS DE COMPUTACAO.
000400        *
000410        PROGRAM-ID.          EXER0001.
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.
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 ==>
F1=Help      F3=Exit      F5=Rfind      F6=Rchange  F12=Cancel          Scroll ==> CSR
  
```

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT          FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
***** ***** Top of Data *****
M30100        IDENTIFICATION DIVISION.
000200        PROGRAM-ID.          EXER0001.
000300        AUTHOR.             FUTURE SCHOOL CURSOS DE COMPUTACAO.
000400        *
000500        * GERAR ARQUIVO DE PECAS SELECIONADAS
000600        *
000700        ENVIRONMENT          DIVISION.
A00800        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        *
001700        SELECT CADATU          ASSIGN TO UT-S-CADATU
001800        FILE STATUS           IS FS-CADATU.
Command ==>
F1=Help      F3=Exit      F5=Rfind      F6=Rchange  F12=Cancel          Scroll ==> CSR
  
```

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT          FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
***** ***** Top of Data *****
000400        *
000500        * GERAR ARQUIVO DE PECAS SELECIONADAS
000600        *
000700        ENVIRONMENT          DIVISION.
000800        CONFIGURATION        SECTION.
000810        IDENTIFICATION        DIVISION.
000820        PROGRAM-ID.          EXER0001.
000830        AUTHOR.             FUTURE SCHOOL CURSOS DE COMPUTACAO.
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 ==>
F1=Help      F3=Exit      F5=Rfind      F6=Rchange  F12=Cancel          Scroll ==> CSR
  
```

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 Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
MM0200    PROGRAM-ID.      EXER0001.
000300    AUTHOR.        FUTURE SCHOOL CURSOS DE COMPUTACAO.
000400    *
MM0500    * GERAR ARQUIVO DE PECAS SELECIONADAS
000600    *
000700    ENVIRONMENT    DIVISION.
000800    CONFIGURATION  SECTION.
A00900    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 ==>
F1=Help   F3=Exit   F5=Rfind   F6=Rchange F12=Cancel
  
```

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
000600    *
000700    ENVIRONMENT    DIVISION.
000800    CONFIGURATION  SECTION.
000900    SPECIAL-NAMES.
000910    PROGRAM-ID.      EXER0001.
000920    AUTHOR.        FUTURE SCHOOL CURSOS DE COMPUTACAO.
000930    *
000940    * GERAR ARQUIVO DE PECAS SELECIONADAS
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 ==>
F1=Help   F3=Exit   F5=Rfind   F6=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 Utilities Compilers Test Help
-----
EDIT          FUTURE.FONTES.COBOL(EXER0001) - 01.08          Columns 00001 00072
***** ***** Top of Data *****
000100        IDENTIFICATION  DIVISION.
000200        PROGRAM-ID.     EXER0001.
LC0300        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-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 ==>
F1=Help      F3=Exit      F5=Rfind     F6=Rchange  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
***** ***** Top of Data *****
000100        IDENTIFICATION  DIVISION.
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-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 ==>
F1=Help      F3=Exit      F5=Rfind     F6=Rchange  F12=Cancel
  
```

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.08          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION DIVISION.
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-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
  
```

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.08          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION DIVISION.
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-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
  
```

Comandos de deslocamento.

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

Digite **)** na linha 000300 e tecla <ENTER>.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION DIVISION.
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-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 ==>
F1=Help      F3=Exit      F5=Rfind      F6=Rchange  F12=Cancel      Scroll ==> CSR

```

Podemos observar o deslocamento para a direita da linha 000300;

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION DIVISION.
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-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 ==>
F1=Help      F3=Exit      F5=Rfind      F6=Rchange  F12=Cancel      Scroll ==> CSR

```

(→ Desloca para a esquerda de uma ou mais colunas;

Digite (na linha 000300 e tecle <ENTER>.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT          FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
***** ***** Top of Data *****
000100      IDENTIFICATION DIVISION.
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-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

```

Podemos observar o deslocamento para a esquerda da linha 000300;

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT          FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
***** ***** Top of Data *****
000100      IDENTIFICATION DIVISION.
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-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

```


Comandos Diversos.

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

Digite **COLS** na linha 000100 e tecle <ENTER>.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.08          Invalid command
*****  ***** Top of Data *****
COLS     IDENTIFICATION DIVISION.
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-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

```

Podemos observar a requa com as posições delimitadas.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.08          Columns 00001 00072
*****  ***** Top of Data *****
=COLS>  ---+---1---+---2---+---3---+---4---+---5---+---6---+---7---
000100   IDENTIFICATION DIVISION.
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-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
Command ==>                               Scroll ==> CSR
F1=Help   F3=Exit   F5=Rfind   F6=Rchange F12=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 tecla <PF8>.

```
File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
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-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 ==> 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
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
026400    *=====
026500    900-00-ERRO          SECTION.
026600    *=====
026700
026800    DISPLAY '***** EXER0001 *****'
026900    DISPLAY '*                               *'
027000    DISPLAY '* ERRO ' FS-OPERACAO ' DO ARQUIVO ' FS-ARQUIVO ' *'
027100    DISPLAY '*                               *'
027200    DISPLAY '* FILE STATUS = ' FS-COD-STATUS
027300    '                               *'
027400    DISPLAY '*                               *'
027500    DISPLAY '* PROGRAMA ENCERRADO'
027600    '                               *'
027700    DISPLAY '*                               *'
027800    DISPLAY '***** EXER0001 *****'
027900    STOP RUN.
028000
028100    900-00-FIM.          EXIT.
*****  ***** Bottom of Data *****
Command ==>                                         Scroll ==> CSR
F1=Help      F3=Exit      F5=Rfind      F6=Rchange  F12=Cancel
```

Digite **M** na linha COMANDO e tecle < PF7 >.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
026400    *-----*
026500    900-00-ERRO                      SECTION.
026600    *-----*
026700
026800    DISPLAY '***** EXER0001 *****'
026900    DISPLAY '* *'
027000    DISPLAY '* ERRO ' FS-OPERACAO ' DO ARQUIVO ' FS-ARQUIVO ' *'
027100    DISPLAY '* *'
027200    DISPLAY '* FILE STATUS = ' FS-COD-STATUS
027300    ' *'
027400    DISPLAY '* *'
027500    DISPLAY '* PROGRAMA ENCERRADO'
027600    ' *'
027700    DISPLAY '* *'
027800    DISPLAY '***** EXER0001 *****'
027900    STOP RUN.
028000
028100    900-00-FIM.          EXIT.
***** ***** Bottom of Data *****
Command ==> M Scroll ==> CSR
F1=Help   F3=Exit   F5=Rfind   F6=Rchange F12=Cancel

```

Podemos observar o deslocamento para o início fim do programa;

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.05          Columns 00001 00072
***** ***** Top of Data *****
000100    IDENTIFICATION DIVISION.
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-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

```

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
-----
EDIT      ALUNONA.FONTES.COBOL(EXER0001) - 01.10      Columns 00001 00072
*****  ***** Top of Data *****
==MSG> -Warning- The UNDO command is not available until you change
==MSG>      your edit profile using the command RECOVERY ON.
000100      IDENTIFICATION  DIVISION.
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-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
-----
EDIT      ALUNONA.FONTES.COBOL(EXER0001) - 01.10      Columns 00001 00072
*****  ***** Top of Data *****
000100      IDENTIFICATION  DIVISION.
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-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 ==> PAGE
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 tecla <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
***** ***** Top of Data *****
000100      IDENTIFICATION  DIVISION.
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-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
***** ***** Top of Data *****
=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.....
000100      IDENTIFICATION  DIVISION.
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-POINT IS COMMA.
001100      *
001200      INPUT-OUTPUT    SECTION.
001300      FILE-CONTROL.
001400      SELECT CADPECA      ASSIGN TO UT-S-CADPECA
Command ==>                                         Scroll ==> CSR
```

RECOVERY

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

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.07          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
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-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 ==> RECOVERY ON                               Scroll ==> CSR
  
```

UNDO

Cancela o último comando executado, sucessivamente;

Digite na linha 000500 uma frase e tecla <ENTER>, depois digite **UNDO** 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    AUTHOR.         FUTURE SCHOOL CURSOS DE COMPUTACAO.
000400    *
000500    * TSO EDITOR MAINFRAME
000600    *
000700    ENVIRONMENT     DIVISION.
000800    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    *
001700          SELECT CADATU          ASSIGN TO UT-S-CADATU
001800                                FILE STATUS      IS FS-CADATU.
001900    *
002000    DATA            DIVISION.
002100    FILE             SECTION.
Command ==> UNDO                               Scroll ==> CSR
  
```

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Fone: (0XX11) 3681-4319 ou 83422503

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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      FUTURE.FONTES.COBOL(EXER0001) - 01.07          Columns 00001 00072
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-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    *
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>.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.07          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION        DIVISION.
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-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 ==> CANCEL
                                         Scroll ==> CSR

```

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

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

```

File Edit Confirm Menu Utilities Compilers Test Help
- .----- Confirm Cancel -----
E |
* | mns 00001 00072
  | *****
0 | Data set has been changed
  |
0 |
0 |
0 | Instructions:
  |
0 | Press ENTER key to confirm cancel request.
  | (All changes will be discarded)
  |
0 | Enter END or EXIT command to return to
  | edit or view session.
  |
0 |
0 | Command ==>
0 |----- CA
001500 FILE STATUS IS FS-CADPECA.
001600 *
001700 SELECT CADATU ASSIGN TO UT-S-CADATU
001800 FILE STATUS IS FS-CADATU.
001900 *
Command ==> Scroll ==> CSR

```

LOCATE

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.07 Columns 00001 00072
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-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 *
002000 DATA DIVISION.
002100 FILE SECTION.
Command ==> 1 3500 Scroll ==> CSR

```

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Podemos observar que foi localizada linha 003500.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT FUTURE.FONTES.COBOL(EXER0001) - 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
004200 RECORDING MODE IS F
004300 LABEL RECORD IS STANDARD
004400 DATA RECORD IS REG-CADATU.
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 tecla <ENTER>.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT FUTURE.FONTES.COBOL(EXER0001) - 01.07 No more to UNDO
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-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 *
002000 DATA DIVISION.
002100 FILE 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-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    *
002000    DATA                  DIVISION.
002100    FILE                     SECTION.
Command ==>                                     Scroll ==> CSR

```

FIND (F)

Para procurar um conjunto específico de caracteres no arquivo;

Digite na linha de comando **F** + (a literal a ser procurada) e tecla <ENTER>.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.07      Columns 00001 00072
***** ***** Top of Data *****
000100    IDENTIFICATION        DIVISION.
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-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 ==> F PIC                                     Scroll ==> 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 Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.07          CHARS 'PIC' found
002800    01 REG-CADPECA.
002900    05 COD-PECA          | PIC 9(05).
003000    05 NOME-PECA        PIC X(30).
003100    05 QTD-PECA         PIC 9(05).
003200    05 QTD-MINIMA       PIC 9(05).
003300    05 QTD-MAXIMA       PIC 9(05).
003400    05 FORNECEDOR       PIC X(05).
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
004200    RECORDING MODE IS F
004300    LABEL RECORD IS STANDARD
004400    DATA RECORD IS REG-CADATU.
004500    01 REG-CADATU.
004600    05 COD-ATU          PIC 9(05).
004700    05 NOME-ATU        PIC X(30).
Command ==>
Scroll ==> CSR

```

X ALL

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      ALUNONA.FONTES.COBOL(EXER0001) - 01.07          Columns 00001 00072
***** ***** Top of Data *****
000100    IDENTIFICATION DIVISION.
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-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
Command ==> X ALL
F1=Help   F3=Exit   F5=Rfind   F6=Rchange F12=Cancel
Scroll ==> PAGE

```

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      ALUNONA.FONTES.COBOL(EXER0001) - 01.07      All lines excluded
*****  ***** Top of Data *****
- - - - - 281 Line(s) not Displayed
*****  ***** Bottom of Data *****
  
```

```

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

Scroll ==> PAGE
  
```

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 **F CADATU ALL** e tecl **<ENTER>**.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      ALUNONA.FONTES.COBOL(EXER0001) - 01.07      All lines excluded
*****  ***** Top of Data *****
- - - - - 281 Line(s) not Displayed
*****  ***** Bottom of Data *****
  
```

```

Command ==> F CADATU ALL
F1=Help      F3=Exit      F5=Rfind      F6=Rchange  F12=Cancel

Scroll ==> PAGE
  
```

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 comando RES e tecla <Enter>.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      ALUNONA.FONTES.COBOL(EXER0001) - 01.07          19 CHARS 'CADATU'
*****  ***** Top of Data *****
- - - - - 16 Line(s) not Displayed
001700      SELECT CADATU          ASSIGN TO UT-S-CADATU
001800      FILE STATUS          IS FS-CADATU.
- - - - - 21 Line(s) not Displayed
004000      FD CADATU
- - - - - 3 Line(s) not Displayed
004400      DATA RECORD          IS REG-CADATU.
004500      01 REG-CADATU.
- - - - - 26 Line(s) not Displayed
007200      77 FS-CADATU          PIC X(02) VALUE SPACES.
- - - - - 32 Line(s) not Displayed
010500      OUTPUT CADATU.
- - - - - 11 Line(s) not Displayed
011700      PERFORM      001-03-FS-CADATU.
- - - - - 18 Line(s) not Displayed
013600      001-03-FS-CADATU      SECTION.
- - - - - 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 tecla <ENTER>.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.07          Columns 00001 00072
*****  ***** Top of Data *****
000100      IDENTIFICATION DIVISION.
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-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 ==> 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
*****  ***** Top of Data *****
000100      IDENTIFICATION  DIVISION.
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-POINT IS COMMA.
001100      *
001200      INPUT-OUTPUT     SECTION.
001300      FILE-CONTROL.
==CHG>      SELECT CADALUNO      ASSIGN TO UT-S-CADALUNO
==CHG>      FILE STATUS        IS FS-CADALUNO.
001600      *
001700      SELECT CADATU      ASSIGN TO UT-S-CADATU
001800      FILE STATUS        IS FS-CADATU.
Command ==>
F1=Help      F3=Exit      F5=Rfind      F6=Rchange  F12=Cancel
  
```

Agora vamos fazer o comando CHANGE sem a opção all.

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      ALUNONA.FONTES.COBOL(EXER0001) - 01.14      Columns 00001 00072
*****  ***** Top of Data *****
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 ==> CHG CADPECA CADALUNO
  
```

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(EXER0001) - 01.15          CHARS 'CADPECA' found
***** ***** Top of Data *****
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 CADALUNO      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 ==>                                         Scroll ==> CSR

```

CHANGE sem a opção all.

Tecla <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
***** ***** Top of Data *****
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 ==> CHG 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.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      ALUNONA.FONTES.COBOL(EXER0001) - 01.15      CHARS 'CADPECA' changed
*****  ***** Top of Data *****
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 CADALUNO   ASSIGN TO UT-S-CADALUNO|
000015    FILE STATUS      IS FS-CADPECA.
000016    *
000017    SELECT CADATU     ASSIGN TO UT-S-CADATU
000018    FILE STATUS      IS FS-CADATU.
000019    *
Command ==>

```

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 Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.08      Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
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-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 ==> HEX ON                               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(EXER0001) - 01.08          Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
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-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
  
```

Comandos de numeração

NUMBER

Liga ou desliga a facilidade de numeração de linhas;

Digite na linha de comando **NUMBER** e tecla <ENTER>.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.08          Invalid parameter
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
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-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 ==> NUMBER OFF                               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
*****  ***** Top of Data *****
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.
Command ==>
F1=Help   F3=Exit   F5=Rfind   F6=Rchange F12=Cancel

```

RENUM

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

Digite na linha de comando **RENUM** e tecla <ENTER>.

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      FUTURE.FONTES.COBOL(EXER0001) - 01.08          Columns 00001 00072
*****  ***** Top of Data *****
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.
Command ==> RENUM
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
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
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-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 ==>
F1=Help    F3=Exit    F5=Rfind    F6=Rchange  F12=Cancel      Scroll ==> CSR

```

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

```

File Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      ALUNONA.FONTES.COBOL(EXER0001) - 01.11      Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
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-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 Edit Confirm Menu Utilities Compilers Test Help
-----
EDIT      ALUNONA.FONTES.COBOL(EXER0001) - 01.12      Columns 00001 00072
*****  ***** Top of Data *****
000100    IDENTIFICATION  DIVISION.
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    *
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 ===>                                     Scroll ===> CSR
```

Parabéns você está apto para fazer a 3ª aula.