```
IDENTIFICATION  DIVISION.
PROGRAM-ID.    SORT-INPUT-OUTPUT.
AUTHOR.           HIROMASA NAGATA.
INSTALLATION.  FATEC-SP.
DATE-WRITTEN. 24/09/2004.
DATE-COMPILED.
SECURITY.  APENAS O AUTOR PODE MODIFICA-LO.
*REMARKS.  FAZ O SORT DO ARQUIVO DE ENTRADA.
*              USANDO INPUT E OUTPUT
*              SELECIONAR SOMENTE PESSOA DO SEXO
*              MASCULINO (M). GERANDO COMO SAIDA
*              UM RELATORIO CLASSIFICADO.


ENVIRONMENT    DIVISION.


CONFIGURATION  SECTION.
SOURCE-COMPUTER. IBM-PC.
OBJECT-COMPUTER. IBM-PC.
SPECIAL-NAMES.  DECIMAL-POINT IS COMMA.


INPUT-OUTPUT   SECTION.
FILE-CONTROL.
   SELECT ENTRADA ASSIGN  TO DISK
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      ORGANIZATION   IS LINE SEQUENTIAL.
      SELECT TRAB    ASSIGN  TO DISK.
      SELECT RELAT   ASSIGN  TO DISK.


   DATA         DIVISION.
   FILE         SECTION.


  FD  ENTRADA
      LABEL RECORD ARE STANDARD
      VALUE OF FILE-ID IS "ENT.DAT".
  01 REG-ENT.
      02 COD-ENT     PIC 9(04).
      02 SEXO-ENT    PIC X(01).
      02 NOME-ENT    PIC X(30).


  SD  TRAB.
  01  REG-TRAB.
      02 COD-TRAB    PIC 9(04).
      02 SEXO-TRAB   PIC X(01).
      02 NOME-TRAB   PIC X(30).


  FD  RELAT
      LABEL RECORD IS OMITTED.
```

```
01  REG-REL        PIC X(80).


WORKING-STORAGE SECTION.
77  FIM-ARQ       PIC X(03) VALUE "NAO".
77  CT-LIN        PIC 9(02) VALUE 25.
77  CT-PAG        PIC 9(02) VALUE ZEROES.


01 CAB-01.
   02 FILLER      PIC X(70) VALUE SPACES.
   02 FILLER      PIC X(05) VALUE "PAG. ".
   02 VAR-PAG     PIC 99.
   02 FILLER      PIC X(03) VALUE SPACES.


01 CAB-02.
   02 FILLER      PIC X(15) VALUE SPACES.
   02 FILLER      PIC X(25) VALUE
                  "RELATORIO DE USUARIOS DO".
   02 FILLER      PIC X(15) VALUE
                  " SEXO MASCULINO".
   02 FILLER      PIC X(25) VALUE SPACES.
01 CAB-03.
   02 FILLER      PIC X(05)  VALUE SPACES.
   02 FILLER      PIC X(06)  VALUE "CODIGO".
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    02 FILLER      PIC X(10)  VALUE SPACES.
    02 FILLER      PIC X(04)  VALUE "SEXO".
    02 FILLER      PIC X(05) VALUE SPACES.
    02 FILLER      PIC X(04) VALUE "NOME".
    02 FILLER      PIC X(46)  VALUE SPACES.


  01 DETALHE.
    02 FILLER      PIC X(05) VALUE SPACES.
    02 COD-DET    PIC 9(04).
    02 FILLER      PIC X(13) VALUE SPACES.
    02 SEXO-DET   PIC X(01).
    02 FILLER      PIC X(02) VALUE SPACES.
    02 NOME-DET  PIC X(30) VALUE SPACES.
    02 FILLER      PIC X(25) VALUE SPACES.
```

PROCEDURE   DIVISION.

PGM-EX08.

```
SORT      TRAB
            ASCENDING  KEY  COD-TRAB
            INPUT    PROCEDURE      ROT-ENTRADA
            OUTPUT   PROCEDURE      ROT-SAIDA.
STOP      RUN.
```

ROT-ENTRADA   SECTION.
```
   PERFORM      INICIO-ENTRADA.
   PERFORM      PRINCIPAL-ENTRADA
                UNTIL
                FIM-ARQ EQUAL  "SIM".
   PERFORM      FIM-ENTRADA.
```

INICIO-ENTRADA   SECTION.
```
   OPEN          INPUT  ENTRADA.
   PERFORM       LEITURA-ENTRADA.
```

LEITURA-ENTRADA **SECTION.**
   READ   **ENTRADA**
            AT END
            MOVE   **"SIM"**   **TO**   **FIM-ARQ.**

PRINCIPAL-ENTRADA **SECTION.**
   PERFORM   **SELECAO-ENTRADA.**
   PERFORM   **LEITURA-ENTRADA.**

SELECAO-ENTRADA **SECTION.**
   IF   **SEXO-ENT**   **EQUAL**   **"M"**
          PERFORM   **GRAVACAO-ENTRADA.**

GRAVACAO-ENTRADA **SECTION.**
   MOVE   **COD-ENT**   **TO**   **COD-TRAB.**
   MOVE   **SEXO-ENT**   **TO**   **SEXO-TRAB.**
   MOVE   **NOME-ENT**   **TO**   **NOME-TRAB.**
   RELEASE   **REG-TRAB.**

FIM-ENTRADA **SECTION.**
   CLOSE   **ENTRADA.**

ROT-SAIDA   SECTION.
   PERFORM   INICIO-SAIDA.
   PERFORM   PRINCIPAL-SAIDA
                    UNTIL
                    FIM-ARQ EQUAL "SIM".
   PERFORM   FIM-SAIDA.

INICIO-SAIDA   SECTION.
   MOVE   "NAO"   TO   FIM-ARQ.
   OPEN   OUTPUT   RELAT.
   PERFORM   LE-SAIDA.

LE-SAIDA   SECTION.
   RETURN   TRAB
             AT END
             MOVE   "SIM"   TO   FIM-ARQ.

PRINCIPAL-SAIDA   SECTION.
   PERFORM   IMPRESSAO-SAIDA.
   PERFORM   LE-SAIDA.

IMPRESSAO-SAIDA   SECTION.
   IF   CT-LIN   GREATER   THAN   24

```
          PERFORM   CABECALHO-SAIDA.
     PERFORM   DETALHE-SAIDA.


 CABECALHO-SAIDA          SECTION.
     ADD      1           TO      CT-PAG.
     MOVE     CT-PAG      TO      VAR-PAG.
     WRITE    REG-REL
              AFTER        ADVANCING  PAGE.
     WRITE    REG-REL    FROM     CAB-01
               AFTER      ADVANCING  1    LINE.
     WRITE    REG-REL     FROM     CAB-02
              AFTER       ADVANCING   2    LINES.
     WRITE    REG-REL     FROM     CAB-03
              AFTER       ADVANCING  2    LINES.
     MOVE     ZEROES      TO       CT-LIN.
```

DETALHE-SAIDA   SECTION.
    MOVE   COD-TRAB   TO   COD-DET.
    MOVE   SEXO-TRAB   TO   SEXO-DET.
    MOVE   NOME-TRAB   TO   NOME-DET.
    WRITE   REG-REL   FROM   DETALHE
                AFTER   ADVANCING 1   LINE.
    ADD   1   TO   CT-LIN.

FIM-SAIDA   SECTION.
    CLOSE   RELAT.