

IDENTIFICATION DIVISION.
PROGRAM-ID. CEP001.
AUTHOR. ANGELO LOTIERZO FILHO.

* MANUTENCAO DO CADASTRO DE PRODUTO *

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ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
SPECIAL-NAMES.
 DECIMAL-POINT IS COMMA.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT PRODUTO ASSIGN TO DISK
 ORGANIZATION IS INDEXED
 ACCESS MODE IS DYNAMIC
 RECORD KEY IS CODPRO
 FILE STATUS IS ST-ERRO
 ALTERNATE RECORD KEY IS DESCR WITH DUPLICATES.

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DATA DIVISION.
FILE SECTION.
FD PRODUTO
 LABEL RECORD IS STANDARD
 VALUE OF FILE-ID IS "PRODUTO.DAT".

01 REGPRO.
 03 CODPRO PIC 9(06).
 03 DESCR PIC X(30).
 03 UNID PIC X(02).
 03 QUANT PIC 9(05)V9.
 03 PRECMD PIC 9(06)V999.
 03 VRESTOQUE PIC 9(10)v99.
 03 FUNCIONARIO PIC X(30).
 03 ALMOXARIFADO PIC 9(01).

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WORKING-STORAGE SECTION.
01 MASC1 PIC ZZZ.ZZ9,99.
01 MASC2 PIC ZZZZ.ZZZ.ZZ9,99.

IDENTIFICATION DIVISION.
PROGRAM-ID. CEP001V2.
AUTHOR. ANGELO LOTIERZO FILHO.

* MANUTENCAO DO CADASTRO DE PRODUTO *

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ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
SPECIAL-NAMES.
 DECIMAL-POINT IS COMMA.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT PRODUTO ASSIGN TO DISK
 ORGANIZATION IS INDEXED
 ACCESS MODE IS DYNAMIC
 RECORD KEY IS CODPRO
 FILE STATUS IS ST-ERRO
 ALTERNATE RECORD KEY IS DESCR WITH DUPLICATES.

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*-----

DATA DIVISION.
FILE SECTION.
FD PRODUTO
 LABEL RECORD IS STANDARD
 VALUE OF FILE-ID IS "PRODUTO.DAT".

01 REGPRO.
 03 CODPRO PIC 9(06).
 03 DESCR PIC X(30).
 03 UNID PIC X(02).
 03 QUANT PIC 9(05)V9.
 03 PRECMD PIC 9(06)V999.
 03 VRESTOQUE PIC 9(10)v99.
 03 FUNCIONARIO PIC X(30).
 03 ALMOXARIFADO PIC 9(01).

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WORKING-STORAGE SECTION.
01 MASC0 PIC ZZ.ZZ9,9.
01 MASC1 PIC ZZZ.ZZ9,999.

77 W-SEL PIC 9(01) VALUE ZEROS.
77 W-CONT PIC 9(06) VALUE ZEROS.
77 W-OPCAO PIC X(01) VALUE SPACES.
77 ST-ERRO PIC X(02) VALUE "00".
77 W-ACT PIC 9(02) VALUE ZEROS.
77 MENS PIC X(50) VALUE SPACES.
77 LIMPA PIC X(50) VALUE SPACES.

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PROCEDURE DIVISION.

INICIO.

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INC-OP0.

OPEN I-O PRODUTO

IF ST-ERRO NOT = "00"

IF ST-ERRO = "30"

OPEN OUTPUT PRODUTO

CLOSE PRODUTO

MOVE "*** ARQUIVO PRODUTO SENDO CRIADO ***" TO MENS

PERFORM ROT-MENS THRU ROT-MENS-FIM

GO TO INC-OP0

ELSE

MOVE "ERRO NA ABERTURA DO ARQUIVO PRODTUO" TO MENS

01 MASC2 PIC ZZZZ.ZZZ.ZZ9,99.
77 W-SEL PIC 9(01) VALUE ZEROS.
77 W-CONT PIC 9(06) VALUE ZEROS.
77 W-OPCAO PIC X(01) VALUE SPACES.
77 ST-ERRO PIC X(02) VALUE "00".
77 W-ACT PIC 9(02) VALUE ZEROS.
77 MENS PIC X(50) VALUE SPACES.
77 LIMPA PIC X(50) VALUE SPACES.

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SCREEN SECTION.

01 TELACEP001.

05 BLANK SCREEN.

05 LINE 02 COLUMN 14 VALUE " *** CADASTRO DE PRODUTOS ***".

05 LINE 04 COLUMN 01 VALUE " CODIGO : ".

05 LINE 06 COLUMN 01 VALUE " DESCRICAO : ".

05 LINE 08 COLUMN 01 VALUE " UNIDADE : ".

05 LINE 10 COLUMN 01 VALUE " QUANTIDADE : ".

05 LINE 12 COLUMN 01 VALUE " PRECO MEDIO : ".

05 LINE 12 COLUMN 41 VALUE " VALOR TOTAL : ".

05 LINE 14 COLUMN 01 VALUE " FUNCIONARIO : ".

05 LINE 16 COLUMN 01 VALUE " ALMOXARIFADO :".

05 LINE 23 COLUMN 01 VALUE " MENSAGEM".

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PROCEDURE DIVISION.

INICIO.

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*-----[ABERTURA DO ARQUIVO PRODUTO]-----

INC-OP0.

OPEN I-O PRODUTO

IF ST-ERRO NOT = "00"

IF ST-ERRO = "30"

OPEN OUTPUT PRODUTO

CLOSE PRODUTO

MOVE "*** ARQUIVO PRODUTO SENDO CRIADO ***" TO MENS

PERFORM ROT-MENS THRU ROT-MENS-FIM

GO TO INC-OP0

ELSE

MOVE "ERRO NA ABERTURA DO ARQUIVO PRODTUO" TO MENS

<pre>PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO ROT-FIM ELSE NEXT SENTENCE. *-----[INICIALIZACAO DAS VARIAVEIS]----- INC-001. MOVE ZEROS TO CODPRO QUANT PRECMD VRESTOQUE ALMOXARIFADO MOVE SPACES TO DESCR UNID. *-----[VISUALIZACAO DA TELA]----- DISPLAY (01, 01) ERASE. DISPLAY (01, 20) "CADASTRO DE PRODUTO" DISPLAY (04, 01) "CODIGO : " DISPLAY (05, 01) "DESCRICAO : " DISPLAY (06, 01) "UNIDADE : " DISPLAY (07, 01) "QUANTIDADE : " DISPLAY (08, 01) "PRECO MEDIA : " DISPLAY (09, 01) "VALOR ESTOQUE : " DISPLAY (10, 01) "NOME DO FUNCIONARIO: " DISPLAY (11, 01) "N DE ALMOXARIFADO : ". *-----[ENTRADA DO CODIGO DO PRODUTO / CAMPO CHAVE]----- INC-002. ACCEPT (04, 21) CODPRO ACCEPT W-ACT FROM ESCAPE KEY IF W-ACT = 02 CLOSE PRODUTO GO TO ROT-FIM. IF CODPRO = 0 MOVE "*** PRODUTO INVALIDO ***" TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO INC-002. *-----[LEITURA DO PRODUTO NO ARQUIVO]----- LER-PRODUTO01. MOVE 0 TO W-SEL READ PRODUTO IF ST-ERRO NOT = "23" IF ST-ERRO = "00" DISPLAY (05, 12) DESCR DISPLAY (06, 12) UNID</pre>	<pre>PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO ROT-FIM ELSE NEXT SENTENCE. *-----[INICIALIZACAO DAS VARIAVEIS]----- INC-001. MOVE ZEROS TO CODPRO QUANT PRECMD VRESTOQUE ALMOXARIFADO MOVE SPACES TO DESCR UNID. *-----[VISUALIZACAO DA TELA]----- DISPLAY TELACEP001. *-----[ENTRADA DO CODIGO DO PRODUTO / CAMPO CHAVE]----- INC-002. ACCEPT (04, 11) CODPRO ACCEPT W-ACT FROM ESCAPE KEY IF W-ACT = 02 CLOSE PRODUTO GO TO ROT-FIM. IF CODPRO = 0 MOVE "*** PRODUTO INVALIDO ***" TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO INC-002. *-----[LEITURA DO PRODUTO NO ARQUIVO]----- LER-PRODUTO01. MOVE 0 TO W-SEL READ PRODUTO IF ST-ERRO NOT = "23" IF ST-ERRO = "00" DISPLAY (06, 14) DESCR DISPLAY (08, 12) UNID</pre>
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DISPLAY (07, 12) QUANT
 DISPLAY (08, 12) MASC1
 DISPLAY (09, 12) VRESTOQUE
 DISPLAY (10, 12) FUNCIONARIO
 DISPLAY (11, 12) ALMOXARIFADO
 MOVE "*** PRODUTO JA CADASTRADO ***" TO MENS
 PERFORM ROT-MENS THRU ROT-MENS-FIM
 MOVE 1 TO W-SEL
 GO TO ACE-001
 ELSE
 MOVE "ERRO NA LEITURA ARQUIVO PRODUTO" TO MENS
 PERFORM ROT-MENS THRU ROT-MENS-FIM
 GO TO ROT-FIM
 ELSE
 NEXT SENTENCE.

*-----[ENTRADA DA QUANTIDADE]-----

INC-003.

ACCEPT (05, 21) DESCR
 ACCEPT W-ACT FROM ESCAPE KEY
 IF W-ACT = 02 GO TO INC-002.

*-----[ENTRADA DA UNIDADE]-----

INC-004.

ACCEPT (06, 21) UNID
 ACCEPT W-ACT FROM ESCAPE KEY
 IF W-ACT = 02 GO TO INC-003.

*-----[ENTRADA DO QUANTIDADE]-----

INC-005.

ACCEPT (07, 21) QUANT
 ACCEPT W-ACT FROM ESCAPE KEY
 IF W-ACT = 02 GO TO INC-004.

*-----[ENTRADA DO PRECO MEDIO]-----

INC-006.

ACCEPT (08, 12) PRECMD
 MOVE PRECMD TO MASC1

MOVE QUANT TO MASCO
 DISPLAY (10, 12) MASCO
 MOVE PRECMD TO MASC1
 DISPLAY (12, 14) MASC1
 MOVE VRESTOQUE TO MASC2
 DISPLAY (12, 56) MASC2
 DISPLAY (14, 16) FUNCIONARIO
 DISPLAY (16, 16) ALMOXARIFADO
 MOVE "*** PRODUTO JA CADASTRADO ***" TO MENS
 PERFORM ROT-MENS THRU ROT-MENS-FIM
 MOVE 1 TO W-SEL
 GO TO ACE-001
 ELSE
 MOVE "ERRO NA LEITURA ARQUIVO PRODUTO" TO MENS
 PERFORM ROT-MENS THRU ROT-MENS-FIM
 GO TO ROT-FIM
 ELSE
 NEXT SENTENCE.

*-----[ENTRADA DA QUANTIDADE]-----

INC-003.

ACCEPT (06, 14) DESCR
 ACCEPT W-ACT FROM ESCAPE KEY
 IF W-ACT = 02 GO TO INC-002.

*-----[ENTRADA DA UNIDADE]-----

INC-004.

ACCEPT (08, 12) UNID
 ACCEPT W-ACT FROM ESCAPE KEY
 IF W-ACT = 02 GO TO INC-003.

*-----[ENTRADA DO QUANTIDADE]-----

INC-005.

ACCEPT (10, 12) QUANT
 ACCEPT W-ACT FROM ESCAPE KEY
 IF W-ACT = 02
 GO TO INC-004.

MOVE QUANT TO MASCO
 DISPLAY (10, 12) MASCO.

*-----[ENTRADA DO PRECO MEDIO]-----

INC-006.

ACCEPT (12, 16)PRECMD
 ACCEPT W-ACT FROM ESCAPE KEY

<p>DISPLAY (08, 12) MASC1 ACCEPT W-ACT FROM ESCAPE KEY IF W-ACT = 02 GO TO INC-005.</p> <p>INC-007. COMPUTE VRESTOQUE = QUANT * PRECMD DISPLAY (09, 21)VRESTOQUE.</p> <p>INC-008. ACCEPT (10, 21) FUNCIONARIO ACCEPT W-ACT FROM ESCAPE KEY IF W-ACT= 02 GO TO INC-006.</p> <p>INC-009. ACCEPT (11, 21) ALMOXARIFADO ACCEPT W-ACT FROM ESCAPE KEY IF W-ACT = 02 GO TO INC-008.</p> <p>*</p> <p>IF W-SEL = 1 GO TO ALT-OPC.</p> <p>INC-OPC. MOVE "S" TO W-OPCAO DISPLAY (23, 40) "DADOS OK (S/N) : ". ACCEPT (23, 57) W-OPCAO WITH UPDATE ACCEPT W-ACT FROM ESCAPE KEY IF W-ACT = 02 GO TO INC-005. IF W-OPCAO = "N" OR "n" MOVE "**** DADOS RECUSADOS PELO OPERADOR ****" TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO INC-001. IF W-OPCAO NOT = "S" AND "s" MOVE "**** DIGITE APENAS S=SIM e N=NAO ****" TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO INC-OPC.</p> <p>INC-WR1. WRITE REGPRO IF ST-ERRO = "00" OR "02" MOVE "**** DADOS GRAVADOS *** " TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO INC-001. IF ST-ERRO = "22" MOVE "**** PRODUTO JA EXISTE *** " TO MENS</p>	<p>IF W-ACT = 02 GO TO INC-005. MOVE PRECMD TO MASC1 DISPLAY (12, 16) MASC1.</p> <p>*-----[CALCULO DO VALOR DE ESTOQUE]-----</p> <p>INC-007. COMPUTE VRESTOQUE = QUANT * PRECMD MOVE VRESTOQUE TO MASC2 DISPLAY (12, 56) MASC2.</p> <p>INC-008. ACCEPT (14, 16) FUNCIONARIO ACCEPT W-ACT FROM ESCAPE KEY IF W-ACT= 02 GO TO INC-006.</p> <p>INC-009. ACCEPT (16, 16) ALMOXARIFADO ACCEPT W-ACT FROM ESCAPE KEY IF W-ACT = 02 GO TO INC-008.</p> <p>*</p> <p>*-- VERIFICACAO ALTERACAO OU CADASTRO]-- IF W-SEL = 1 GO TO ALT-OPC.</p> <p>*-----[VERIFICACAO DE ACEITE DA GRAVACAO]-----</p> <p>INC-OPC. MOVE "S" TO W-OPCAO DISPLAY (23, 40) "DADOS OK (S/N) : ". ACCEPT (23, 57) W-OPCAO WITH UPDATE ACCEPT W-ACT FROM ESCAPE KEY IF W-ACT = 02 GO TO INC-005. IF W-OPCAO = "N" OR "n" MOVE "**** DADOS RECUSADOS PELO OPERADOR ****" TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO INC-001. IF W-OPCAO NOT = "S" AND "s" MOVE "**** DIGITE APENAS S=SIM e N=NAO ****" TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO INC-OPC.</p> <p>INC-WR1. WRITE REGPRO IF ST-ERRO = "00" OR "02" MOVE "**** DADOS GRAVADOS *** " TO MENS</p>
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<pre>PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO INC-001 ELSE MOVE "ERRO NA GRAVACAO DO ARQUIVO DE PRODUTO" TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO ROT-FIM. * ***** * ROTINA DE CONSULTA/ALTERACAO/EXCLUSAO * ***** * ACE-001. DISPLAY (23, 12) "F1=NOVO REGISTRO F2=ALTERAR F3=EXCLUIR" ACCEPT (23, 55) W-OPCAO ACCEPT W-ACT FROM ESCAPE KEY IF W-ACT NOT = 02 AND W-ACT NOT = 03 AND W-ACT NOT = 04 GO TO ACE-001. MOVE SPACES TO MENS DISPLAY (23, 12) MENS IF W-ACT = 02 MOVE 02 TO W-SEL GO TO INC-001. IF W-ACT = 03 GO TO INC-003. * EXC-OPC. DISPLAY (23, 40) "EXCLUIR (S/N) : ". ACCEPT (23, 57) W-OPCAO IF W-OPCAO = "N" OR "n" MOVE "*** REGISTRO NAO EXCLUIDO ***" TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO INC-001. IF W-OPCAO NOT = "S" AND "s" MOVE "*** DIGITE APENAS S=SIM e N=NAO ***" TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO EXC-OPC. EXC-DL1. DELETE PRODUTO RECORD</pre>	<pre>PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO INC-001. IF ST-ERRO = "22" MOVE "*** PRODUTO JA EXISTE ***" TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO INC-001 ELSE MOVE "ERRO NA GRAVACAO DO ARQUIVO DE PRODUTO" TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO ROT-FIM. * ***** * ROTINA DE CONSULTA/ALTERACAO/EXCLUSAO * ***** * ACE-001. DISPLAY (23, 12) "F1=NOVO REGISTRO F2=ALTERAR F3=EXCLUIR" ACCEPT (23, 55) W-OPCAO ACCEPT W-ACT FROM ESCAPE KEY IF W-ACT NOT = 02 AND W-ACT NOT = 03 AND W-ACT NOT = 04 GO TO ACE-001. MOVE SPACES TO MENS DISPLAY (23, 12) MENS IF W-ACT = 02 MOVE 02 TO W-SEL GO TO INC-001. IF W-ACT = 03 GO TO INC-003. * *-----[VERIFICACAO DE ACEITE DA EXCLUSAO]----- EXC-OPC. DISPLAY (23, 40) "EXCLUIR (S/N) : ". ACCEPT (23, 57) W-OPCAO IF W-OPCAO = "N" OR "n" MOVE "*** REGISTRO NAO EXCLUIDO ***" TO MENS PERFORM ROT-MENS THRU ROT-MENS-FIM GO TO INC-001. IF W-OPCAO NOT = "S" AND "s"</pre>
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IF ST-ERRO = "00"
  MOVE "**** REGISTRO EXCLUIDO ***      " TO MENS
  PERFORM ROT-MENS THRU ROT-MENS-FIM
  GO TO INC-001.
MOVE "ERRO NA EXCLUSAO DO REGISTRO " TO MENS
PERFORM ROT-MENS THRU ROT-MENS-FIM
GO TO ROT-FIM.
*
ALT-OPC.
  DISPLAY (23, 40) "ALTERAR (S/N) : ".
  ACCEPT (23, 57) W-OPCAO
  ACCEPT W-ACT FROM ESCAPE KEY
  IF W-ACT = 02 GO TO INC-005.
  IF W-OPCAO = "N" OR "n"
    MOVE "**** INFORMACOES NAO ALTERADAS *** " TO MENS
    PERFORM ROT-MENS THRU ROT-MENS-FIM
    GO TO INC-001.
  IF W-OPCAO NOT = "S" AND "s"
    MOVE "**** DIGITE APENAS S=SIM e N=NAO ****" TO MENS
    PERFORM ROT-MENS THRU ROT-MENS-FIM
    GO TO ALT-OPC.
ALT-RW1.
  REWRITE REGPRO
  IF ST-ERRO = "00" OR "02"
    MOVE "**** REGISTRO ALTERADO ***      " TO MENS
    PERFORM ROT-MENS THRU ROT-MENS-FIM
    GO TO INC-001.
  MOVE "ERRO NA EXCLUSAO DO REGISTRO PRODUTO" TO MENS
  PERFORM ROT-MENS THRU ROT-MENS-FIM
  GO TO ROT-FIM.
*
*****
* ROTINA DE FIM      *
*****
*
ROT-FIM.
  DISPLAY (01, 01) ERASE
  EXIT PROGRAM.
ROT-FIMP.
  EXIT PROGRAM.

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MOVE "**** DIGITE APENAS S=SIM e N=NAO ****" TO MENS
PERFORM ROT-MENS THRU ROT-MENS-FIM
GO TO EXC-OPC.
EXC-DL1.
  DELETE PRODUTO RECORD
  IF ST-ERRO = "00"
    MOVE "**** REGISTRO EXCLUIDO ***      " TO MENS
    PERFORM ROT-MENS THRU ROT-MENS-FIM
    GO TO INC-001.
  MOVE "ERRO NA EXCLUSAO DO REGISTRO " TO MENS
  PERFORM ROT-MENS THRU ROT-MENS-FIM
  GO TO ROT-FIM.
*
*-----[ VERIFICACAO DE ACEITE DA ALTERACAO ]-----
ALT-OPC.
  DISPLAY (23, 40) "ALTERAR (S/N) : ".
  ACCEPT (23, 57) W-OPCAO
  ACCEPT W-ACT FROM ESCAPE KEY
  IF W-ACT = 02 GO TO INC-005.
  IF W-OPCAO = "N" OR "n"
    MOVE "**** INFORMACOES NAO ALTERADAS *** " TO MENS
    PERFORM ROT-MENS THRU ROT-MENS-FIM
    GO TO INC-001.
  IF W-OPCAO NOT = "S" AND "s"
    MOVE "**** DIGITE APENAS S=SIM e N=NAO ****" TO MENS
    PERFORM ROT-MENS THRU ROT-MENS-FIM
    GO TO ALT-OPC.
ALT-RW1.
  REWRITE REGPRO
  IF ST-ERRO = "00" OR "02"
    MOVE "**** REGISTRO ALTERADO ***      " TO MENS
    PERFORM ROT-MENS THRU ROT-MENS-FIM
    GO TO INC-001.
  MOVE "ERRO NA EXCLUSAO DO REGISTRO PRODUTO" TO MENS
  PERFORM ROT-MENS THRU ROT-MENS-FIM
  GO TO ROT-FIM.
*
*****
* ROTINA DE FIM      *
*****

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ROT-FIMS.
    STOP RUN.
*
*****
* ROTINA DE MENSAGEM *
*****
*
ROT-MENS.
    MOVE ZEROS TO W-CONT.
ROT-MENS1.
    DISPLAY (23, 12) MENS.
ROT-MENS2.
    ADD 1 TO W-CONT
    IF W-CONT < 3000
        GO TO ROT-MENS2
    ELSE
        DISPLAY (23, 12) LIMPA.
ROT-MENS-FIM.
    EXIT.
FIM-ROT-TEMPO.

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ROT-FIM.
    DISPLAY (01, 01) ERASE
    EXIT PROGRAM.
ROT-FIMP.
    EXIT PROGRAM.

ROT-FIMS.
    STOP RUN.
*
*****
* ROTINA DE MENSAGEM *
*****
*
ROT-MENS.
    MOVE ZEROS TO W-CONT.
ROT-MENS1.
    DISPLAY (23, 12) MENS.
ROT-MENS2.
    ADD 1 TO W-CONT
    IF W-CONT < 3000
        GO TO ROT-MENS2
    ELSE
        DISPLAY (23, 12) LIMPA.
ROT-MENS-FIM.
    EXIT.
FIM-ROT-TEMPO.

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