

```
File Edit Search View Options Help
C:\MASM\CMPSTRIN.ASM

.MODEL SMALL

DISPLAY MACRO MSG
    LEA DX,MSG
    MOV AH,09H
    INT 21H
ENDM

.DATA
MSG1 DB 0DH, 0AH,"ENTER THE FIRST STRING$"
MSG2 DB 0DH, 0AH,"ENTER THE SECOND STRING$"
MSG3 DB 0DH, 0AH,"LENGTH OF THE FIRST STRING:$"
MSG4 DB 0DH, 0AH,"LENGTH OF THE SECOND STRING$"
MSG5 DB 0DH, 0AH,"----STRING ARE EQUAL----- :$"
MSG6 DB 0DH, 0AH,"----STRING ARE NOT EQUAL----- :$"
STRING1 DB 80H DUP(?)
STRING2 DB 80H DUP(?)

.CODE
START: MOV AX,@DATA
        MOV DS,AX

Commands for manipulating files
```

```
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C:\MASM\CMPSTRIN.ASM

    DISPLAY MSG1
    MOV SI,OFFSET STRING1
    CALL READSTR
    MOV BL,CL
    DISPLAY MSG2
    MOV SI,OFFSET STRING2
    CALL READSTR
    PUSH BX
    PUSH CX
    DISPLAY MSG3
    MOV AL,BL
    CALL LEN_DIS
    POP CX
    POP BX
    CMP CL,BL
    JNE FAIL
    MOV SI,OFFSET STRING1
    MOV DI,OFFSET STRING2
    CLD

CHK:  MOV AL,[SI]
        CMP AL,[DI]
```

```
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C:\MASM\CMPSTRIN.ASM

JNE FAIL
INC SI
INC DI
DEC CL
JNZ CHK
DISPLAY MSG5
JMP FINAL

LEN_DIS PROC NEAR
    XOR AH,AH
    ADD AL,00H
    AAM
    ADD AX,3030H
    MOV BH,AL
    MOV DL,AH
    MOV AH,02H
    INT 21H
    MOV DL,BH
    MOV AH,02H
    INT 21H
RET
Commands for manipulating files
```

```
C:\MASM\CMPSTRIN.ASM

LEN_DIS ENDP
READSTR PROC NEAR
    XOR CL,CL

BACK:  MOV AH,01H
        INT 21H
        CMP AL,0DH
        JE FINISH
        MOV [SI],AL
        INC SI
        INC CL
        JMP BACK

FINISH: MOV [SI],BYTE PTR '$'
        RET

READSTR ENDP

FAIL:  DISPLAY MSG6

FINAL: MOV AH,4CH
        INT 21H
Commands for manipulating files
```

```
READSTR ENDP  
  
FAIL: DISPLAY MSG6  
  
FINAL: MOV AH,4CH  
        INT 21H  
  
END START
```

Commands for manipulating files

```
Microsoft (R) Macro Assembler Version 5.00  
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.
```

```
51598 + 464946 Bytes symbol space free
```

```
0 Warning Errors  
0 Severe Errors
```

```
C:\MASM>LINK CMPSTRINGS;;
```

```
Microsoft (R) Overlay Linker Version 3.60  
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.
```

```
LINK : warning L4021: no stack segment
```

```
C:\MASM>CMPSTRINGS
```

```
ENTER THE FIRST STRING GUN
```

```
ENTER THE SECOND STRING GUN
```

```
LENGTH OF THE FIRST STRING:04
```

```
----STRING ARE EQUAL----- :
```

```
C:\MASM>_
```

| File Edit View Search Run Watch Options Calls Help | | | |
|--|---|--------|--------------------|
| local | | reg | |
| source1 CS:IP (ACTIVE) | | | |
| 052A:0000 | B83305 | MOV | AX,0533 |
| 052A:0003 | 8ED8 | MOV | DS,AX |
| 052A:0005 | 8D160000 | LEA | DX,Word Ptr [0000] |
| 052A:0009 | B409 | MOV | AH,09 |
| 052A:000B | CD21 | INT | 21 |
| 052A:000D | BEB100 | MOV | SI,00B1 |
| 052A:0010 | E85B00 | CALL | 006E |
| 052A:0013 | 8AD9 | MOV | BL,CL |
| 052A:0015 | 8D161900 | LEA | DX,Word Ptr [0019] |
| 052A:0019 | B409 | MOV | AH,09 |
| 052A:001B | CD21 | INT | 21 |
| 052A:001D | BE3101 | MOV | SI,0131 |
| 052A:0020 | E84B00 | CALL | 006E |
| 052A:0023 | 53 | PUSH | BX |
| 052A:0024 | 51 | PUSH | CX |
| command | | | |
| 051A:0000 | CD 20 FF 9F 00 EA FF FF-AD DE 6C 02 CD 03 32 03 | | |
| 051A:0010 | CD 03 4B 0A CD 03 FF 04-01 01 01 00 02 03 FF FF | ..K... | |
| > | | | |
| AX = 0000 BX = 0000 CX = 0000 DX = 0000 SP = 0000 BP = 0000 SI = 0000 DI = 0000 DS = 051A ES = 051A SS = 0529 CS = 052A IP = 0000 FL = 0200 OV UP EI PL NZ NA PO NC | | | |
| <F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display> <ESC=Cancel> | | | |

| File Edit Search View Options Help | |
|---|--|
| C:\MASM\TIME.ASM | |
| <pre> .MODEL SMALL .CODE MOV AH,2CH INT 21H MOV AL,CH AAM MOV BX,AX CALL DISP MOV DL,':' MOV AH,02H INT 21H MOV AL,CL AAM MOV BX,AX CALL DISP MOV DL,':' MOV AH,02H INT 21H </pre> | |
| Commands for manipulating files | |

```

File Edit Search View Options Help
C:\MASM\TIME.ASM

INT 21H

MOV AL,DH
AAM
MOV BX,AX
CALL DISP

MOV AH,4CH
INT 21

DISP PROC NEAR
MOV DL,DH
ADD DL,30H
MOV AH,02H
INT 21H
MOV DL,BL
ADD DL,30H
MOV AH,02H
INT 21H
RET
DISP ENDP
END

F1=Help Line:43 Col:62

```

| File Edit View Search Run Watch Options Calls Help | | | |
|---|---|------|-------|
| local | | | |
| source1 CS:IP (ACTIVE) | | | |
| 052A:0000 | B42C | MOV | AX,2C |
| 052A:0002 | CD21 | INT | 21 |
| 052A:0004 | 8AC5 | MOV | AL,CH |
| 052A:0006 | D40A | AAM | |
| 052A:0008 | 8BD8 | MOV | BX,AX |
| 052A:000A | E82200 | CALL | 002F |
| 052A:000D | B23A | MOV | DL,3A |
| 052A:000F | B402 | MOV | AH,02 |
| 052A:0011 | CD21 | INT | 21 |
| 052A:0013 | 8AC1 | MOV | AL,CL |
| 052A:0015 | D40A | AAM | |
| 052A:0017 | 8BD8 | MOV | BX,AX |
| 052A:0019 | E81300 | CALL | 002F |
| 052A:001C | B23A | MOV | DL,3A |
| 052A:001E | B402 | MOV | AH,02 |
| 052A:0020 | CD21 | INT | 21 |
| command | | | |
| 051A:0000 | CD 20 FF 9F 00 EA FF FF-AD DE 6C 02 CD 03 32 03 . . . | | |
| 051A:0010 | CD 03 4B 0A CD 03 FF 04-01 01 01 00 02 03 FF FF ..K.. | | |
| > | | | |
| <div> <div>AX = 0000</div> <div>BX = 0000</div> <div>CX = 0000</div> <div>DX = 0000</div> <div>SP = 0000</div> <div>BP = 0000</div> <div>SI = 0000</div> <div>DI = 0000</div> <div>DS = 051A</div> <div>ES = 051A</div> <div>SS = 0529</div> <div>CS = 052A</div> <div>IP = 0000</div> <div>FL = 0200</div> </div> <div> <div>NU UP EI PL</div> <div>NZ NA PO NC</div> </div> | | | |
| <div><F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display> <ESC=Cancel></div> | | | |