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init macro
    MOV ax,@data
    MOV ds,ax
endm

prints macro
    MOV ah,09h
    INT 21h
endm

acceptch macro
    MOV ah,01h
    INT 21h
endm

printch macro
    MOV ah,02h
    INT 21h
endm

terminate macro
    MOV ah,04ch
    INT 21h
endm

.model small
.stack 100h
.data

    str1  db 25 DUP ('$')
    str2  db 25 DUP ('$')
    len1  db 0
    len2  db 0
    menu  db '1. Compare',13,10,'2. Concatenate',13,10,'3. Substring',13,10,'4.
Exit',13,10,'Your Choice : $'
    msg1  db 'Enter String: $'
    msg6  db 13,10,13,10,'Incorrect Choice$'
    newline db 13,10,13,10,'$'
    choice db ?

.code

MAIN PROC

    init
    LEA dx,msg1
    prints
    LEA si,str1
    CALL ACCEPT
    MOV len1,cl

    LEA dx,msg1
    prints
    LEA si,str2
    CALL ACCEPT
    MOV len2,cl

    extrn SUBSTRING:FAR
    extrn STRCMP:FAR
    extrn STRCAT:FAR

```

loop1:LEA dx,menu  
prints

acceptch  
MOV choice,al  
SUB choice,30h

CALL SWITCH  
JMP loop1

ret  
ENDP

SWITCH PROC

case1:CMP choice,1  
JNE case2

LEA si,str1  
LEA di,str2  
MOV al,len1  
MOV bl,len2  
CALL STRCMP  
LEA dx,newline  
prints  
ret

case2:CMP choice,2  
JNE case3

LEA si,str1  
LEA di,str2  
MOV dx,di  
  
MOV cl,len1  
MOV ch,len2

CALL STRCAT  
LEA dx,newline  
prints  
ret

case3:CMP choice,3  
JNE case4

LEA si,str1  
LEA di,str2  
  
CALL SUBSTRING  
LEA dx,newline  
prints  
ret

case4:CMP choice,4  
JNE default  
terminate

default:LEA dx,msg6  
prints

```
LEA dx,newline  
prints  
ret
```

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ENDP
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ACCEPT PROC
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```
    MOV dl,[si]  
    MOV cl,0  
label1: acceptch  
    MOV [si],al  
    INC cl  
    INC si  
    CMP al,13  
    JNE label1
```

```
    ret  
ENDP
```

```
end
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