```asm
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

        cat     db 25 DUP ('$')
        msg4    db 13,10,13,10,'Result     : $'

.code

        PUBLIC STRCAT
        STRCAT PROC FAR

            LEA di,cat
            SUB cl,1

    label2: MOV al,[si]
            MOV [di],al
            INC si
            INC di
            DEC cl
            CMP cl,0
            JNE label2

            MOV si,dx
            SUB ch,1

    label4: MOV al,[si]
            MOV [di],al
            INC si
            INC di
            DEC ch
            CMP ch,0
            JNE label4

            LEA dx,msg4
```

```
        prints

        LEA dx,cat
        prints
        ret

    STRCAT ENDP
end
```