

北京航空航天大学

1.asm BEIJING UNIVERSITY OF AERONAUTICS AND ASTRONAUTICS

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STACK1 SEGMENT PARA STACK
STACK-AREA DW 100H DUP(?)
STACK BOTTOM EQU $-STACK-AREA
STACK1 ENDS

DATA1 SEGMENT PARA
STR PB 'dsn love', '$'
DB 20H DUP(?)

IN-MAX EQU 20H
IN-BUF PB IN-MAX-1
IN-LEN DB ?
IN-STR DB IN-MAX DUP(?)

NEW-LINE DB 0DH, 0AH, '$'
DATA1 ENDS

CODE1 SEGMENT PARA
ASSUME CS: CODE1, DS: DATA1
ASSUME ES: DATA1, SS: STACK1

PRINT-STR PROC FAR
    PUSH BP
    PUSH BP, SP
    MOV DX, [BP+06H]
    MOV AH, 9
    INT 21H

    POP BP
    RET 02H
GET-STR ENDP

STR-CAT PROC FAR
    PUSH BP
    MOV BP, SP
    MOV DI, [BP+08H]
    MOV AL, '$'
    CLD
    
```



STR-CAT-LOOP-1:

SCASB

JNE STR-CAT-LOOP-1

PUSH ES

PUSH DS

POP ~~ES~~

DEC DI

MOV SI, FBP+06H

LO

LEA AX

PUSH AX

LEA AX, IN-STR

PUSH AX

CALL STR-SCIT

LEA AX, STR

PUSH AX

CALL PRINT-STR

STR-CAT-LOOP-2:

MOVSB

CMP ISIL, AL

JNE STR-CAT-LOOP-2:

POP ES

MOV IDII, AL

POP BP

RET 04H

EXIT:

MOV AX, 4000H

INT 21H

MAIN

ENDP

CODE1

ENDS

END START

STR-CAT ENDP

START

MAIN

PROC FAR

MOV AX, STACK1

MOV SS, AX

MOV SP, STACK_BOTTOM

MOV AX, DATA1

MOV ES, AX

MOV ES, AX

LEA AX, IN-BUF

PUSH AX

CALL GET-STR

~~CALL~~

