```
DATA1    SEGMENT
    ORG 2000H
AREA DB 200 DUP (?)
        .
        .
DATA1    ENDS
STACK1 SEGMENT
    DB 50 DUP (?)
        .
        .
SRACK1    ENDS
CODE1    SEGMENT
    ASSUME DS：DATA1, SS：STACK1, CS：CODE1
START: MOV AL, 92H
    MOV DX, 1C3H
    OUT DX, AL
    MOV AX, DATA1
    MOV DS, AX
    MOV SI, 2000H
    MOV BL, 8
    MOV DX, 1C8H
LOP:    MOV CX, 18H
LOP2:    IN AL, DX
    PUSH DX
    MOV DX, 1C1H
LOP3:    IN AL, DX
    TEST AL, 01H
    JZ LOP3
    MOV DX, 1C0H
    IN AL, DX
    MOV [SI], AL
    INC SI
    POP DX
    LOOP LOP2
    INC DX
    DEC BL
    JNZ LOP1
    HLT
CODE1    ENDS
    END    START
```