```
;
; This is a demonstration program.
;
;   First it moves some data around.
;
;   Then it reads some characters and echos them to the screen.
;
DATA_SEG        SEGMENT 'DATA'

FOO             DW 1234H
BAR             DW 0ABCDH
BLOW            DW ?

DATA_SEG        ENDS

;--------------------------------------------------------------------------

STACK_SEG       SEGMENT STACK 'STACK'

                DW 100H DUP(?)

STACK_SEG       ENDS

;--------------------------------------------------------------------------

CODE_SEG        SEGMENT 'CODE'
                ASSUME CS:CODE_SEG, DS:DATA_SEG, SS:STACK_SEG

MAIN            PROC FAR

                MOV  AX,DATA_SEG            ; initialize segment registers
                MOV  DS,AX
                MOV  AX,STACK_SEG
                MOV  SS,AX

                MOV  AX,FOO
                MOV  BX,BAR
                MOV  AX,5768H
                MOV  BLOW,AX
                MOV  AX,9ABCH
                MOV  BLOW,AX

HIHO:           MOV  AH,6                   ; read key
                MOV  DL,0FFH
                INT  21H
                JE   HIHO
```

```
                CMP   AL,'@'                ; test for @
                JE    BYE                   ; jump if it was @

                MOV   AH,6                  ; echo key to console
                MOV   DL,AL
                INT   21H
                JMP   HIHO                  ; do it again!

BYE:            MOV   AH,4CH                ; exit back to DOS
                INT   21H

MAIN            ENDP
CODE_SEG        ENDS
                END   MAIN
```