

```

.model    medium
.286
PUBLIC    _M
cseg      SEGMENT
          ASSUME    CS:cseg
;*****
i          PROC      NEAR
          PUSH      AX                ;50
          PUSH      DS                ;1E
          MUL       DI                ;F7E7
          POP       DX                ;5A
          MOV       BX,DX              ;8BDA
          ADD       BX,SI              ;03DE
          ADD       BX,AX              ;8BD8
          POP       AX                ;58
          RET                     ;C3
i          ENDP
;*****
_M         PROC      FAR
          ENTER     0,0                ;C8000000
          PUSHA                     ;60

          MOV       DX,[BP + 6]        ;8B5606
          MOV       CX,[BP + 8]        ;8B6608
          MOV       AX,[BP + 10]       ;8B460A
          MOV       SI,[BP + 12]       ;8B760C
          MOV       DI,0               ;BF0000

          CALL      NEAR PTR s         ;E8????

          POPA                     ;61
          MOV       AX,0               ;B80000
          ADC       AX,0               ;150000
          LEAVE                     ;C9
          RET                     ;CB
_M         ENDP
;*****
s          PROC      NEAR
          CMP       SI,0               ;83FE00
          JL        error              ;7C??
          CMP       SI,AX              ;3BF0
          JGE       error              ;7D??
          CMP       DI,0               ;83FF00
          JL        error              ;7C??
          CMP       DI,CX              ;3BF9
          JL        cont               ;7C

error:     STC                         ;F9
          RET                     ;C3

cont:      CMP       SI,[BP + 16]       ;3B7610
          JNE       go                 ;75??
          CMP       DI,[BP + 14]       ;3B7E0D
          JNE       go                 ;75??
          ;CLC
          RET                     ;C3

go:        CALL      i                 ;E8????
          CMP       BYTE PTR[BX],0     ;803F00
          JE        test_right         ;74??
          STC                         ;F9
          RET                     ;C3

test_right:
          MOV       BYTE PTR[BX],2     ;C60704
          INC       SI                 ;46
          CALL      s                 ;E8????
          DEC       SI                 ;4E
          JC        test_up             ;72??
          RET                     ;C3

test_up:   DEC       DI                 ;4F
          CALL      s                 ;E8????

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        INC     DI                ;47
        JC      test_left        ;72??
        RET                     ;C3
test_left:
        DEC     SI                ;4E
        CALL    s                ;E8????
        INC     SI                ;46
        JC      test_down        ;72??
        RET                     ;C3
test_down:
        INC     DI                ;47
        CALL    s                ;E8????
        DEC     DI                ;4F
        JNC     done             ;73??
        CALL    i                ;E8????
        MOV     BYTE PTR [BX],4  ;C60704
        STC                     ;F9
done:
        RET                     ;C3
s       ENDP
;*****
cseg    ENDS
        END

```