

# Even or Odd

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org 100h

.Data
o DB "odd $"
e DB "even $"
NEWLINE DB 10,13,'$'
SPACE DB ' $'

.Code
MAIN PROC
    mov ax, @DATA
    mov ds, ax

    mov ah, 1    ;Input
    int 21h      ;execute whatever's in ah

    mov bl, 2
    div bl       ;divide contents of al by bl (because we're using bl, it'll only divide the contents of al)

    cmp ah, 1 ;the remainder is stored in the ah
    mov ah, 09h    ;print
    jne EVEN

    lea dx, o
    int 21h;
    jmp EXT

EVEN:
    lea dx, e
    int 21h;

EXT: ret
MAIN ENDP
```