section .data

odd\_msg db "No. of odd numbers are :"

odd\_len equ $-odd\_msg

even\_msg db "No. of even numbers are :"

even\_len equ $-even\_msg

array db 1,2,4,3,5,7,8,3

newLine db ' ',13,10

newLen equ $-newLine

section .bss

even resb 1

od resb 1

section .text

global \_start

\_start:

mov cl,0

mov bl,8

mov esi,array

call proc

mov bl,cl

add cl,'0'

mov [od],cl

mov al,8

sub al,bl

add al,'0'

mov [even],al

;displaying the values

mov eax,4

mov ebx,1

mov ecx,even\_msg

mov edx,even\_len

int 80h

;displaying the even

mov edx,1

mov ecx,even

mov ebx,1

mov eax,4

int 80h

mov eax,4

mov ebx,1

mov ecx,newLine

mov edx,newLen

int 80h

;displaying the values

mov eax,4

mov ebx,1

mov ecx,odd\_msg

mov edx,odd\_len

int 80h

;displaying the odd

mov edx,1

mov ecx,od

mov ebx,1

mov eax,4

int 80h

mov eax,4

mov ebx,1

mov ecx,newLine

mov edx,newLen

int 80h

mov eax,1

int 80h

proc:

mov eax,[esi]

rcr eax,1

jc odd

incre: inc esi

dec bl

jnz proc

ret

odd:

inc cl

jmp incre

OUTPUT:

