**מעבדה 8:**

מגישים:

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**קוד תרגיל 1:**

;lab8

;HardEven(arr1, arr2, N);

; BP+4, BP+6, BP+8

.MODEL **SMALL**

.STACK 100h

.DATA

;defines variables

COUNTER DW 0

TEN DW 10

.CODE

\_HardEven PROC **NEAR**

PUBLIC \_HardEven

**PUSH** **BP** ;save the register BP

**MOV** **BP,SP** ;the BP register will point to the top of the stack

**PUSH** **DI** ;save the register DI

**MOV** **DI,[BP+**4**]** ;DI = &arr1[0]

**PUSH** **SI** ;save the register DI

**MOV** **SI,[BP+**6**]** ;SI = &arr2[0]

**MOV** **CX,[BP+**8**]** ;CX = size

**MOV** COUNTER**,** 0 ;Initialization of the variable COUNTER

;A loop within a loop that takes a number and checks if

;each digit is a parity digit if all the digits are a parity

; the counter increases by 1

L1**:**

**MOV** **AX,[DI]**

L2**:**

**CWD**

**IDIV** TEN

**TEST** **DX,**1

**JNZ** next

**CMP** **AX,**0

**JNE** L2

**INC** COUNTER

**MOV** **AX,[DI]**

**MOV** **[SI],AX**

**ADD** **SI,**2

next**:**

**ADD** **DI,**2

**LOOP** L1

**MOV** **AX,**COUNTER

;pop registers from the stack

**POP** **SI**

**POP** **DI**

**POP** **BP**

;end of procedure

**RET**

\_HardEven ENDP

END

**פלט תרגיל 1:**

