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Write an assembly language program to take the input of N numbers from memory location 2201 and store sum of even number at 2210 and sum of odd number at 2211 in 8085 microprocessor.

```
LDA 2200
MOV C,A ;C=4
MVI B,0 ;B=0 FOR EVEN
MVI D,0 ;D=0 FOR ODD
LXI H,2201
BACK: MOV A,M ;A=1 FROM 2201,A=2,3,4
ANI 01 ;AND 01 WITH A FOR CHECKING EVEN OR ODD
JNZ ODD ; ODD IF NOT 0 THAT IS 1,0,1,0
MOV A,B ;FOR EVEN A=B=>0,2
ADD M ;A=A+M=>0+2=2 ,2+4=6
MOV B,A ;NOW B=2,6
JMP NEXT ; NEXT ADDRESS
ODD: MOV A,D ;A=D=>0,1
ADD M ;A=A+M=>0+1=1,1+3=4
MOV D,A ;D=A=>1,4
NEXT: INX H ;INCREMENT MEMORY POINTER THAT IS 2202,2203,2204
DCR C ;C=3,2,1,0
JNZ BACK
MOV A,B
STA 2210
MOV A,D
STA 2211
HLT
```

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Result:

Memory Location	Data value
2200	4 (Counter)
2201	1
2202	2
2203	3
2204	4
2210	6 (Sum of even numbers)
2211	4 (Sum of odd numbers)