



YEDİTEPE UNIVERSITY

CSE232 SYSTEMS PROGRAMMING

2023 SPRING

ASSIGNMENT 1

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```

        LDAA #00
        STAA $50 ; initializating it to 0
        STAA $60 ; initializating it to 0
        LDAB #1 ; counter is set to 1

LOOP    CMPB #10 ; compare if accumulator B is 10
        BEQ STOP ; exit from the loop if accumulator B is 10

        BITB #01 ; check for even/odd
        BEQ EVEN ; branch if accumulator B is even
        INC $50 ; increment odd counter otherwise
        BRA LPEND ; branch to the LPEND

EVEN    INC $60 ; increment even counter;
        BRA LPEND ; branch to the LPEND
LPEND   INCB ; increment accumulator B
        BRA LOOP ; branch to the beginning of the loop
STOP    STAB $40

```