

Problem Set 8 – ECE 109 60x version

Examples to study

```
; Echo program using TRAPs
.ORIG x3000
LOOP GETC
    OUT
    ADD    R0,R0,x-A
    BRz    DONE
    BRnzp  LOOP
DONE HALT
.END
```

```
; Echo program not using TRAPs
.ORIG x3000    ; Get character from keyboard
LOOP LDI    R1, KBSR ; Test if character has been pressed
    BRzp    LOOP    ; When pressed, the leftmost bit will be 1
    LDI    R0,KBDR  ; Get the pressed character
ECHO LDI    R1, DSR  ; Test if display is ready
    BRzp    ECHO    ; When leftmost bit is 1, it's ready
    STI    R0, DDR  ; Print character
    ADD    R0,R0,#0
    BRz    DONE
    BRnzp  LOOP
DONE HALT
.END
```

Program to write

Write a program that reads in a string from the user via the console until the user hits enter. The program should then print out the string both forwards and reverse.