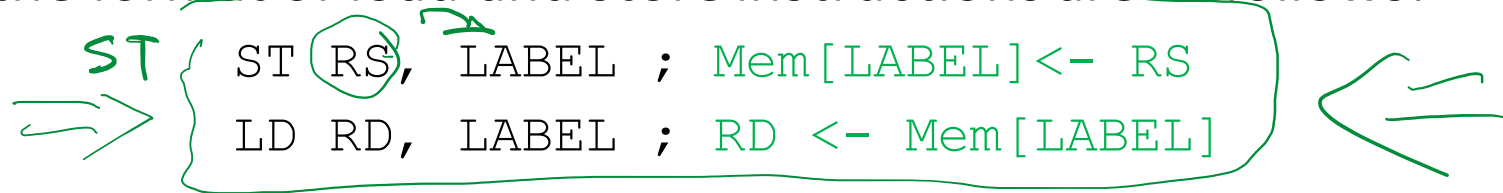


Quiz 13

Implement a subroutine that increments the value of memory stored in INPUT and stores the result in the memory address RESULT. Assume that all registers are currently being used in the main program.

Hint: the format of load and store instructions are as follows:

 **ST** RS, LABEL ; Mem[LABEL] <- RS
LD RD, LABEL ; RD <- Mem[LABEL]

```
.ORIG x3000
JSR  FUNC
HALT
; Mem[RESULT] = Mem[INPUT] + 1
// ONLY WRITE the Code Here
FUNC
INPUT  .BLKW 1
RESULT .BLKW 1
.END
```

Store R1, SaveR1

LD R1, INPUT
ADD R1, R1, #1
ST R1, RESULT

JMP R7

Load R1, SaveR1

SaveR1 .BLKW 1