



# Homework Projects



**Homework Project 1:** Write an MIPS Assembly Language program that will read in ten integers from the keyboard and compute the sum of the absolute values of all ten numbers.  
For Example, if the input is 2,4,6,8,10,-10,-8,-6,-4,-2 then the sum should be 60.

## Homework Project 2

Write a MIPS Assembly Language program that asks the user for an integer grade. Next, based on a ten-point scale, prints out one of the following statements:

“You made an A” if the grade is  $\geq 90$

“You made a B” if  $80 \leq \text{grade} < 90$

“You made a C” ” if  $70 \leq \text{grade} < 80$

“Summer school for you” if the grade is  $< 70$

*Hint: Write out the program in Python first (or any high-level language you know), then translate it to assembly language.*

**Homework Project 3:** Write a MIPS assembly language program that asks the user for an integer value, then, using a loop, prints out that many of the Fibonacci numbers, one value per line. For example, if the user entered 7, the output would be:

0

1

1

2

3

5

8

*Hint: Write out the program in Python first (or any high-level language you know), then translate it to assembly language.*

# Homework Project 4

Write a program that first asks the user for 10 nonzero integer numbers and stores them in a memory array. Then, the program asks for a new number and says whether it is in the original array. The program should keep asking for new numbers to evaluate until you enter a zero.