

EE103 Introduction to Programming
Homework Assignment #1
Due Date: Oct 19, 2014 (11:59pm)

Write a C program that calculates current ' i ' through R3 resistor as shown in Figure 1. Your program should ask the values of three resistors (R1, R2, and R3) and the supply voltage to the user. Your result should be shown in two formats as explained in the following.

1) The current value should have maximum two digits after floating point.

(Example: If the real current value is equal to 3.5468, the shown result should be as:
Current through R3 resistor as decimal format = 3.54)

2) By using 'ceil' function which is included in math.h library, your current value should be turned to the smallest integer value greater than the decimal result.

(Example: Current through R3 resistor as integer format = 4)

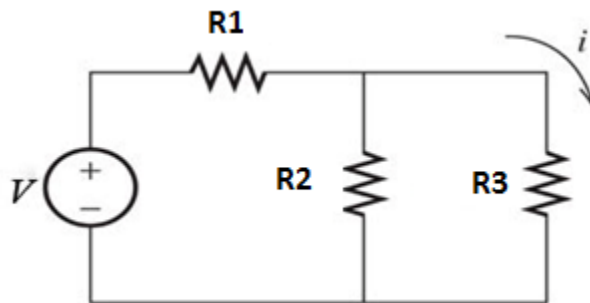


Figure 1. A simple electrical circuit