

Summary of Problem Statement**Problem #** 1

The program should prompt the user to enter a vector of resistances in ohms then prompt the user to select the type of connection (series or parallel). Then calculate the equivalent resistance.

Known / Input

Resist = user defined vector of resistance values
 Type = user defined (Series Circuit or Parallel Circuit)
 Redo = user chooses whether to repeat (Yes or No)

Unknown / Output

Equiv_Resistance = Equivalent Resistance of circuit

Assumptions

The user did not enter a negative Resistance

Other Variables

Redo = 1; Defines Redo to make the program start

Algorithm

User enters the values for the resistances and what type of circuit the resistances are for.
 Using a fprintf and for loop combination print out the user defined resistances.
 Based on what type of circuit the user specifies this is (series or parallel), the program will calculate the equivalent resistance.

Test Cases

Using the provided test case [100 100 100 100] Output: 25 ohms parallel, 400 ohms series
 [100 10 10 100] Output: 5 ohms parallel, 220 ohms series