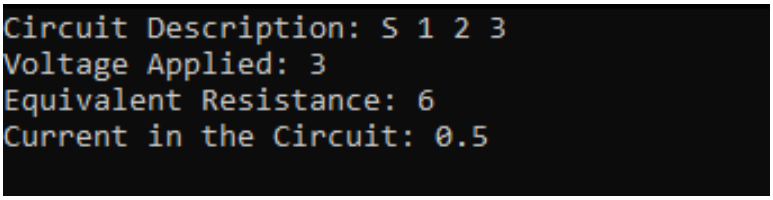
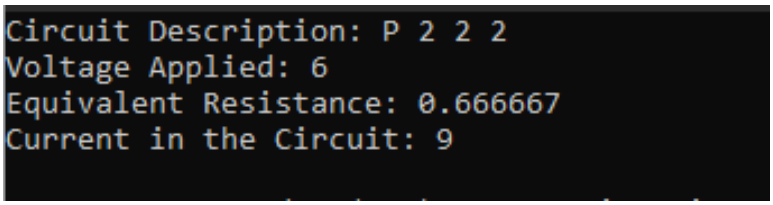
```cpp
#include <iostream>
#include <string>
using namespace std;

int main() {
   // Get the circuit info as a string using the getline function.
   string circuitSpecs;
   cout << "Circuit Description: ";
   getline(cin, circuitSpecs);

   // Make an array for the values of the resistances.
   double resistances[3];
   for(int i{0};i < 3;i++)
   {
      resistances[i] = stod(circuitSpecs.substr(2 + 2*i, 1));
   }


   // Make an equivalent resistance variable and calculate it depending on the type of connection.
   double totalResistance{};
   if(circuitSpecs[0] == 'S'){
      for(int i{0};i < 3;i++)
      {
         totalResistance += resistances[i];
      }
   }
   else
   {
      for(int i{0};i < 3;i++)
      {
         totalResistance += (1/resistances[i]);
      }
      totalResistance = 1/totalResistance;
   }

   // Read the voltage applied to the circuit.
   double voltage{};
   cout << "Voltage Applied: ";
   cin >> voltage;

   // Print out the calculated equivalent resistance and circuit current.
   cout << "Equivalent Resistance: " << totalResistance << endl;
   cout << "Current in the Circuit: " << voltage / totalResistance << endl;
}
```



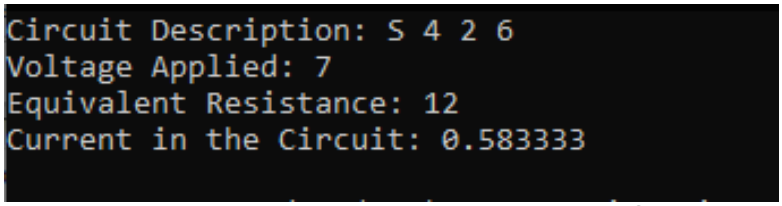
$$R_{eq} = R_1 + R_2 + R_3 = 1 + 2 + 3 = 6\ \Omega$$

$$I = \frac{V}{R_{eq}} = \frac{3}{6} = 0.5\ Amp$$



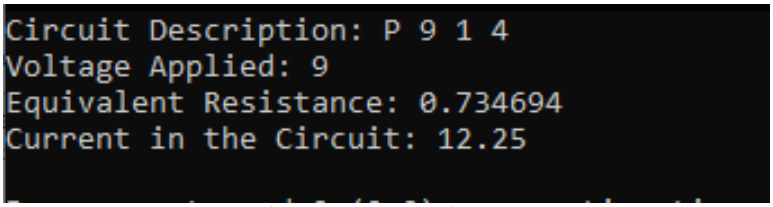
$$R_{eq} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}} = \frac{1}{\frac{1}{2} + \frac{1}{2} + \frac{1}{2}} = 0.667\ \Omega$$

$$I = \frac{V}{R_{eq}} = \frac{6}{0.667} = 9\ Amp$$



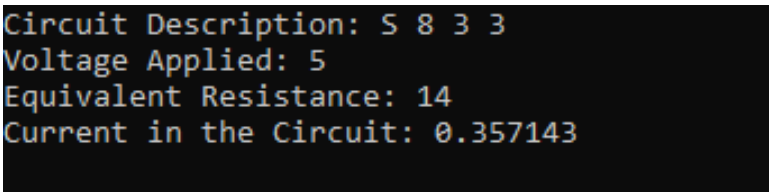
$$R_{eq} = R_1 + R_2 + R_3 = 4 + 2 + 6 = 12\ \Omega$$

$$I = \frac{V}{R_{eq}} = \frac{7}{12} = 0.583\ Amp$$



$$R_{eq} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}} = \frac{1}{\frac{1}{9} + \frac{1}{1} + \frac{1}{4}} = 0.735\ \Omega$$

$$I = \frac{V}{R_{eq}} = \frac{9}{0.735} = 12.25\ Amp$$



$$R_{eq} = R_1 + R_2 + R_3 = 8 + 3 + 3 = 14\ \Omega$$

$$I = \frac{V}{R_{eq}} = \frac{5}{14} = 0.357\ \ Amp$$
