

Answer on Question #46960, Programming, C++

Problem.

Hi C++ geniuses! I am stuck with this program that was assigned as a homework. I will post the question along side with my coded program. Here is the question as follows:

An Internet service provider has three different subscription packages for its customers:

Package A: For \$9.95 per month 10 hours of access are provided. Additional hours are \$2.00 per hour.

Package B: For \$14.95 per month 20 hours of access are provided. Additional hours are \$1.00 per hour.

Package C: For \$19.95 per month unlimited access is provided.

Write a program that calculates a customer's monthly bill. It should ask which package the customer has purchased and how many hours were used. It should then display the total amount due.

Input Validation: Be sure the user only selects package A, B, or C. Also, the number of hours used in a month cannot exceed 744.

need the flowchart please help

Solution.

Code

```
#include <iostream>
#include <string>

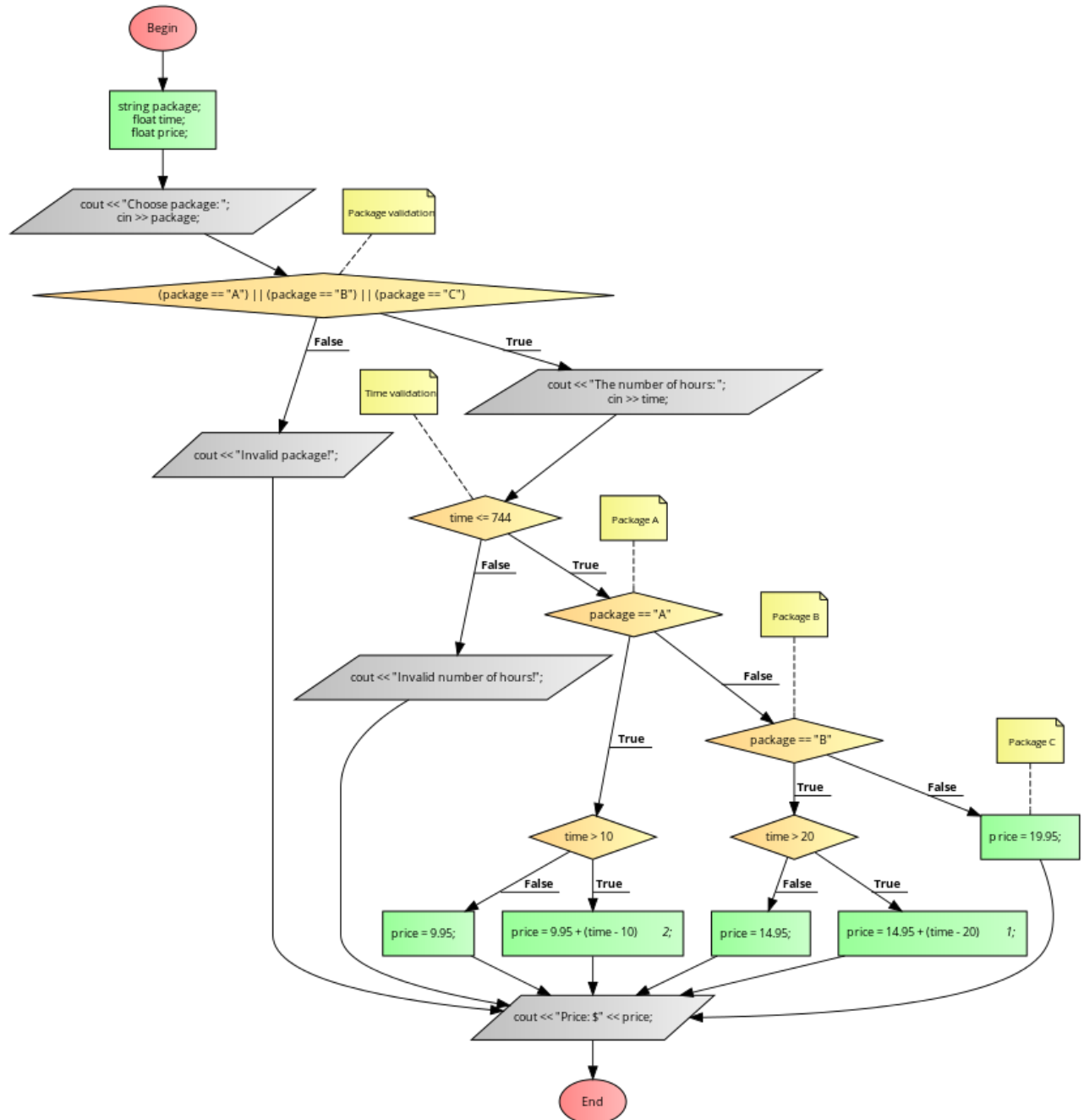
using namespace std;

int main() {
    string package;
    float time;
    float price;
    cout << "Choose package: ";
    cin >> package;

    // Package validation
    if ((package == "A") || (package == "B") || (package == "C")) {
        cout << "The number of hours: ";
        cin >> time;

        // Time validation
        if (time <= 744) {
            // Package A
            if (package == "A") {
                if (time > 10) {
                    price = 9.95 + (time - 10) * 2;
                } else {
                    price = 9.95;
                }
            }
            // Package B
            } else if (package == "B") {
                if (time > 20) {
                    price = 14.95 + (time - 20) * 1;
                } else {
                    price = 14.95;
                }
            }
            // Package C
            } else {
                price = 19.95;
            }
        } else {
            cout << "Invalid number of hours!";
        }
    } else {
        cout << "Invalid package!";
    }
    cout << "Price: $" << price;
}
```

Flowchart (<http://code2flow.com/Td579h>)



Result

Choose package: B
The number of hours: 22
Price: \$16.95