```cpp
// tipcalc.cpp
// Calculates tip and bill splitting.

#include <iostream>

using namespace std;

int main()
{

        float bill;
        cout << "Welcome to the Tip Calculator" << endl << endl;
        cout << "How much was your bill? ";
        cin >> bill;

        int people;
        cout << endl << "How many people are in your party? ";
        cin >> people;

        float tip1 = bill * 0.15;
        float tip2 = bill * 0.20;

        float result1 = (bill + tip1) / people;
        float result2 = (bill + tip2) / people;

        cout << "A 15% tip is $ " << tip1 << " and you each need to
pay $ " << result1 << endl;
        cout << "A 20% tip is $ " << tip2 << " and you each need to
pay $ " << result2 << endl;

        return 0;

}
```