// Your Loss, Our Gain
#include <iostream>
#include <string>
using namespace std;

void main(){
  int before, after, loss, maxloss, minloss;
  string name, winner, worst;
  winner="none";
  worst="none";
  cout << "At the 'New client?' prompt, enter a client's name. \n"
  << "After the last client, enter 'end'.\n" << endl ;
  cout << "New client? ";                //First client only
  cin >> name;
  if (name != "end"){
    cout << "Starting weight? ";
    cin >> before;
    cout << "Ending weight? ";
    cin >> after;
    loss = before - after;
    cout << name << " lost " << loss << "lbs.\n" << endl;
    maxloss = loss;
    minloss = loss;
    winner = name;
    worst = name;
    cout << "New client? ";                //Second client only
    cin >> name;
    while (name != "end") {
      cout << "Starting weight? ";
      cin >> before;
      cout << "Ending weight? ";
      cin >> after;
      loss = before - after;
      if (loss > maxloss){
        maxloss = loss;
        winner = name;
      } else
        if (loss < minloss) {
          minloss = loss;
          worst = name;
        }
      cout << name << " lost " << loss << " lbs.\n" << endl;
      cout << "\nNew client? ";
      cin >> name;
    } //end while
    cout << "\n\n";
    cout << "Congratulations, " << winner
      << " you have won the top prize!\n"
      << "You lost the most weight: " << maxloss << " lbs.\n";
    cout << "Sorry, " << worst << " you lost the least weight: "
      << minloss << " lbs. Try harder." << endl;
  } else
    cout << "There was no data." << endl;

cout <<"\n\nType any key and press Enter to close this window.";
cin >> name;
return;
At the 'New client?' prompt, enter a client's name. After the last client, enter 'end'.

New client?  D.Hammett
Starting weight? 180
Ending weight? 175
D.Hammett lost 5 lbs.

New client?  R.MacDonald
Starting weight? 210
Ending weight? 190
R.MacDonald lost 20 lbs.

New client?  J.D.MacDonald
Starting weight? 230
Ending weight? 220
J.D.MacDonald lost 10 lbs.

New client?

J.D.MacDonald lost 10 lbs.

New client?  G.Mcdonald
Starting weight? 200
Ending weight? 191
G.Mcdonald lost 9 lbs.

New client?  R.B.Parker
Starting weight? 290
Ending weight? 220
R.B.Parker lost 70 lbs.

New client?  end

Congratulations, R.B.Parker you have won the top prize!
You lost the most weight: 70 lbs.
Sorry, D.Hammett you lost the least weight: 5 lbs. Try harder.

Type any key and press Enter to close this window.