```
*******************************************************************************
*******************************************************************************
**                                                                         **
**                             extra2.cc listing                           **
**                                                                         **
*******************************************************************************
*******************************************************************************

#include <iostream>
using namespace std;
/*
  Steven Liu
  CS115-J0E1
  Fall, 2010
  Extra Credit #2

  This program will count how many days it will take for an exponentially
  growing daily wage, starting at 1 cent, to surpass a high intial
  salary offering.
*/


const float OFFER = 5260348205.00;      //global var used to easily change
                                        //the OFFER we want to compare to
int main(){
        int numday;             //accumulator - days until totalpay > OFFER
        float daypay;           //accumulator - the day's pay
        float totalpay;         //LCV - total earnings

        numday = 0;
        daypay = 0.01;
        totalpay = 0.0;

        //find out how long it takes (in days) for an exponential pay,
        //starting at $0.01 to surpass an initial offering, called OFFER
        while (totalpay < OFFER){
                numday++;
                totalpay += daypay;
                daypay *= 2.0;
                }

        cout << "It took " << numday << " days to earn $" << totalpay << endl
                << "Your initial offering was $" << OFFER << endl;
        }
```

```
*******************************************************************************
*******************************************************************************
**                                                                         **
**                           extra2.cc compilation                         **
**                                                                         **
*******************************************************************************
*******************************************************************************

c++ compilation succeeded
```

```
********************************************************************************
********************************************************************************
**                                                                            **
**            extra2.cc execution - unstructured testcase 1 [#1]              **
**                                                                            **
********************************************************************************
********************************************************************************

It took 39 days to earn $5.49756e+09
Your initial offering was $5.26035e+09
```