61:

int you = maxRL - 1;

```
Thu May 07 06:46:09 2015
a.cpp
   62:
         if( i > maxCL - 1 || j > maxRL - 1 ) return 0 ;
   63:
         if( i < hey && j < you
                                   ) {
   64:
           if( opt[i][j] == opt[i+1][j+1] \&\& a[i] == b[j] ){
   65:
   66:
   67:
             cout << a[i] << b[j] << 0 << endl</pre>
             i++; j++;
   68:
             return Alignment( i , j );
   69:
   70:
   71:
           if( opt[i][j] == opt[i+1][j+1] + 1 && a[i] != b[j] ){
   72:
             cout << a[i] << b[j] << 1 << endl ;</pre>
   73:
             i++ ; j++ ;
   74:
             return Alignment( i , j );
   75:
           } ;
   76:
           if( opt[i][j] == opt[i+1][j] + 2 && a[i] != b[j] ){
   77:
             cout << a[i] << '-' << 2 << endl ;
   78:
             i++ ;
   79:
             return Alignment( i , j );
   80:
   81:
           if( opt[i][j] == opt[i][j+1] + 2 \&\& a[i] != b[j] ){
   82:
             cout << '-' << b[j] << 2 << endl;
   83:
             j++ ;
   84:
             return Alignment( i , j );
   85:
   86:
   87:
         if( i < maxCL && j != maxRL - 1) {
   88:
           cout << b[i] << "-"<< 2<< endl ;
   89:
           i++ ;
   90:
           return Alignment(i , j );
   91:
   92:
         if( j < maxRL && i != maxCL ) {</pre>
   93:
   94:
           cout <<"-"<< a[j]<< 2<< endl ;
   95:
           j++ ;
           Alignment( i , j );
   96:
   97:
   98:
         return 0 ;
   99: }
```

```
1: // Angel Zheondre Calcano
 2: // PS4
3:
 4: #include <SFML/System.hpp>
5: #include <string>
6: #include <iostream>
7: #include "a.hpp"
8:
9: using namespace std;
11: int main( int argc, char *argv[] ) {
12: int count ;
13: sf::Clock clock;
14: sf::Time t;
15: string a, b;
16: cin >> a ; cin >> b ;
17: //check if they are null if so cancel program.
18: Edist test( a, b );
19: count = test.OptDistance();
20: cout << "Edit distance " << count << endl;
21: test.Alignment( 0, 0 );
    t = clock.getElapsedTime() ;
22:
    cout << "Execution time is " << t.asSeconds() << " seconds \n" ;</pre>
23:
24: cout << count << endl ;
25:
    return 0 ;
26: }
```