```
    1: #include <SFML/System.hpp>
    2: #include <iostream>
    3: #include <string>
    4: #include "ED.hpp"
    5:
    6: int main(int argc, char* argv[])
    7: {
    8:         std::string _x, _y;//_x relates to x and _y relates to y, or colu
mn
    9:
   10:
   11:         std::cin >> _x;//1st string
   12:         std::cin >> _y;//2nd string
   13:
   14:         int editDistance;
   15:         std::string edit_distance_output;
   16:
   17:         sf::Clock clock;
   18:         sf::Time t;
   19:
   20:         ED ed(_x,_y);//create ED with the two string from files;
   21:
   22:         editDistance = ed.optimalDistance();//get optimal distance or cos
t;
   23:
   24:         edit_distance_output = ed.Alignment();//set output as the alignme
nt string;
   25:
   26:         std::cout << "Edit distance = " << editDistance << std::endl;
   27:         std::cout << edit_distance_output << std::endl;
   28:         //output the two strings vertically using - for gaps
   29:
   30:         t = clock.getElapsedTime();
   31:         std::cout << "Time elapsed is " << t.asSeconds() << " seconds.";
   32:         std::cout << std::endl;
   33:
   34:         std::cout << ed << std::endl;//you can turn this comment on to se
e the array
   35:         //as long as the array is not to big to fit on the terminal outpu
t screen.
   36:
   37:
   38:         return 0;
   39:
   40: }
```