```
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ED.hpp
    1: #ifndef ED HPP
    2: #define ED_HPP_
    3: #include <vector>
    4: #include <string>
    5:
    6:
    7: class ED{
    8: public:
    9:
               ED(std::string a, std::string b);
   10:
               ~ED();
   11:
   12:
               void perimeterCases();
   13:
               int penalty(char a, char b);
               int min(int& x, int& y, int& z);
   14:
   15:
               int optimalDistance();
   16:
               std::string Alignment();
   17:
   18:
               friend std::ostream& operator <<(std::ostream& left, const ED& ed</pre>
);//displays grid
   19: private:
   20:
              unsigned int m, n;
               std::string x, y;
   21:
   22:
               int **grid;
   23: };
   24:
   25: #endif
```