```
406410114 UVA118 Mutant Flatworld Explorers
#include <bits/stdc++.h>
using namespace std;
int main(){
         int i,j,k,x lim,y lim;
          cin >>x_lim>>y_lim;
          int x,y;
          char ori_face;
          string cmd;
         char L[] = { 'N','W','S','E' };
char R[] = { 'N','E','S','W' };
          bool scent[102][102];
          for ( i = 0; i < 102; i++ )
                    fill( scent[i], scent[i]+102, false );
                   cin >>x>>y>ori_tace.....
bool LOST = false;
for ( i = 0;i<cmd.length();i++ ){
    if ( cmd[i] == 'R' ) {
        for( j = 0; R[j] != ori_face ;j++ );
        ori_face = R[(j+1)%4];</pre>
          while ( cin >>x>>y>>ori_face>>cmd ) {
                              else if ( cmd[i] == 'L' ) {
            for( j = 0; L[j] != ori_face ; j++ );
                                        ori_face = L[(j+1)%4];
                              }//else if
                              else if ( cmd[i] == 'F' ) {
      if ( ori_face == 'E' ) {
          if ( LOST == false ) {
                                                             x++;
                                                             if ( x>x_lim ) {
                                                                       if (scent[x][y] == false){
                                                                                 scent[x][y] = true;
                                                                                 LOST = true;
                                                                                 break;
                                                                       }//if
                                                           }//if
                                                   }//if
                                         }//if
                                        else if ( ori face == 'W' ) {
                                                   if ( LOST == false ) {
                                                             if (x<0){
                                                                       if ( scent[x][y] == false ){
                                                                                 scent[x][y] = true;
                                                                                 LOST = true;
                                                                                 break;
                                                                       }//if
                                                           }//if
                                                   }//if
                                         }//if
                                        else if ( ori face == 'S' ) {
                                                   if ( LOST == false ) {
                                                             if ( y<0 ){
                                                                        if ( scent[x][y] == false ){
                                                                                 scent[x][y] = true;
LOST = true;
                                                                                 break;
                                                                       }//if
                                                            }//if
                                                   }//if
                                         }//if
                                         else if ( ori_face == 'N' ){
                                                   if (\overline{LOST} == false){
                                                             y++;
if ( y>y_lim ){
                                                                         if (scent[x][y] == false){
                                                                                 scent[x][y] = true;
LOST = true;
                                                                                 break;
                                                                       }//if
                                                           }//if
                                                 }//if
                                        }//if
                              }//else if
                    //
                              cout << " ori_face:" <<ori_face<<endl;</pre>
```