```
#include<iostream>
#include<fstream>
using namespace std;
const int dx[4]={-1,1,0,0};
const int dy[4]={0,0,-1,1};
char a[100][100],s[50];
int n,m,i,j,maxx;
ifstream f("lee.in");
ofstream fout("lee.out");
int inside(int i,int j)
{
  return i>=1 && i<=n && j>=1 && j<=m;
}
void lee(int i,int j)
{
 int k,inou,jnou,pas=1,gasit;
 int b[100][100]={0};
 b[i][j]=1;
 do
 {
          gasit=0;
         for(i=1;i<=n;i++)
                  for(j=1;j<=m;j++)
                           if(a[i][j]==s[pas-1] && b[i][j]==pas)
                                    for(k=0;k<4;k++)
                                             {
                                                      inou=i+dx[k];
                                                      jnou=j+dy[k];
                                                      if(inside(inou,jnou) && a[inou][jnou]==s[pas] && b[inou][jnou]==0)
                                                      {
                                                               gasit=1;
                                                               b[inou][jnou]=pas+1;
                                                      }
                                             }
         pas++;
 }
 while(gasit);
if(pas-1>maxx) maxx=pas-1;
}

int main()
{
  f>>n>>m;
  for(i=1;i<=n;i++)
           for(j=1;j<=m;j++)
                    f>>a[i][j];
  f>>s;
  for(i=1;i<=n;i++)
           for(j=1;j<=m;j++)
                    if(a[i][j]==s[0])
                             lee(i,j);
  for(i=0;i<maxx;i++)
```

Din fișierul text *lee.in* se citește o matrice nXm care conține litere mici si apoi un cuvânt s. Găsiți cel mai lung prefix al cuvântului s care se poate construi cu literele din matrice prin deplasare paralela cu liniile si coloanele matricei fără a trece de doua ori prin aceeași literă.

lee.out

anamaria

lee.in

5 6
axsads
aanama
nnaair
asdydi
sedrft
anamariana

0	1	2	3	4	5	6	7	8	9
a	**n**	**a**	**m**	**a**	**r**	**i**	**a**	**n**	**a**

s

	i=0	i=1	i=2	i=3	i=4	i=5	i=6
j=0							
j=1		**a**	**x**	**s**	**a**	**d**	**s**
j=2		**a**	**a**	**n**	**a**	**m**	**a**
j=3		**n**	**n**	**a**	**a**	**i**	**r**
j=4		**a**	**s**	**d**	**y**	**d**	**i**
j=5		**s**	**e**	**d**	**r**	**f**	**t**

a

	i=0	i=1	i=2	i=3	i=4	i=5	i=6
j=0							
j=1							
j=2			**1**	**2**	**3**	**4**	**5**
j=3			**2**	**3**	**8**	**7**	**6**
j=4			**3**				**7**
j=5							

b