

```

1  #include<bits/stdc++.h>
2  using namespace std;
3  #define ll long long
4  const ll mod = 1000000007;
5  int x[1005],y[1005];
6  int main(){
7      ios::sync_with_stdio(false); cin.tie(0);
8      int n,m; cin>>n>>m;
9      string s[n+5];
10     for(int i=0; i<n; i++){
11         cin>>s[i];
12     }
13
14     int a[n+5][m+5];
15     ll dp[n+5][m+5], mp[n+5][m+5];
16     for(int i=0; i<=n+2; i++){
17         for(int j=0; j<=m+2; j++){
18             dp[i][j]=mp[i][j]=a[i][j]=0;
19         }
20     }
21
22     for(int i=0; i<n; i++){
23         for(int j=0; j<m; j++){
24             if(s[i][j]=='#')a[i+1][j+1]=1;
25             else a[i+1][j+1]=0;
26         }
27     }
28
29     dp[1][1] = 1;
30     for(int i=1; i<=n; i++){
31         for(int j=1; j<=m; j++){
32             if(i==1&&j==1)continue;
33             if(a[i][j]==0)dp[i][j]=0;
34             else{
35                 dp[i][j] = dp[i-1][j]+dp[i][j-1];
36                 dp[i][j] %= mod;
37             }
38         }
39     }
40
41     mp[n][m]=1;
42     for(int i=n; i>=1; i--){
43         for(int j=m; j>=1; j--){
44             if(i==n&&j==m)continue;
45             if(a[i][j]==0)mp[i][j]=0;
46             else{
47                 mp[i][j] = mp[i][j+1]+mp[i+1][j];
48                 mp[i][j] %= mod;
49             }
50         }
51     }
52
53     int q; cin>>q;
54     while(q--){
55         {
56             int p; cin>>p;
57             for(int k=1; k<=p; k++){
58                 cin>>x[k]>>y[k];
59             }
60
61             ll ans = 0;
62             for(int k=1; k<=p; k++){
63                 ans += (dp[x[k]][y[k]]*mp[x[k]][y[k]])%mod;
64                 ans %= mod;
65             }
66             cout << ans << endl;
67         }
68
69         return 0;
70     }

```