A.数量多少?

12个,数一下就好,欢迎加入ACM社团

B.上下左右?

仔细观察一下就能发现,只要找到箭头的拐点,然后判断出两条斜边的方向,就能知道是 什么箭头了

```
/*
      * Author: JiangYu
      * Created Time: 2018/5/17 17:50:42
      * File Name: B.cpp
4.
      */
     #include <iostream>
6.
     #include <cstdio>
     #include <cstdlib>
8.
     #include <cstring>
10. #include <cmath>
     #include <algorithm>
      #include <string>
      #include <vector>
      #include <stack>
14.
      #include <queue>
      #include <set>
      #include <map>
18.
      #include <time.h>
19. using namespace std;
20. #define 11 long long
      #define MP make pair
      #define PB push back
      #define X first
      #define Y second
      #define FI first
      #define SE second
      #define inf 0x3f3f3f3f
28.
      #define FOR(i, a, b) for (int i = a; i \le b; ++i)
      #define FORD(i, a, b) for(int i = b; i \ge a; --i)
      #define ALL(x) x. begin(), x. end()
      #define REP(i, a) for(int i = 0; i < a; ++i)
      #define DEP(i, a) for(int i = a-1; i \ge 0; --i)
      #define CLR(a) memset(a, 0, sizeof a)
34.
      char g[20][20];
      int main() {
          for(int i = 1; i \le 10; ++i) {
              scanf("%s", g[i]+1);
38.
          for(int i = 1; i \le 10; ++i) {
              for(int j = 1; j \le 10; ++j) {
41.
                  if(g[i][j] == '#' && g[i+1][j-1] == '#' && g[i+1][j+1] == '#') {
                      printf("UP\n");
42.
                      return 0;
44.
                  else if(g[i][j] == '#' && g[i+1][j-1] == '#' && g[i-1][j-1] == '#') {
                      printf("RIGHT\n");
```

C.高数过没?

暴力计算显然不行,复杂度为O(tp)注意到a很少,所以可以预处理出所有的 a^p ,复杂度为O(t+p)当然时间给的很足,也可以用快速幂暴力计算(预处理解法)

```
* Author: JiangYu
       * Created Time: 2018/5/16 23:35:53
4.
       * File Name: D. cpp
       */
6.
      #include <bits/stdc++. h>
      using namespace std;
      #define 11 long long
8.
9.
      #define MP make_pair
      #define PB push_back
      #define X first
      #define Y second
      #define FI first
      #define SE second
14.
      #define inf 0x3f3f3f3f
      #define FOR(i, a, b) for(int i = a; i \le b; ++i)
      #define FORD(i, a, b) for(int i = b; i \ge a; --i)
      #define ALL(x) x. begin(), x. end()
18.
      #define REP(i, a) for(int i = 0; i < a; ++i)
      #define DEP(i, a) for(int i = a-1; i \ge 0; --i)
      #define CLR(a) memset(a, 0, sizeof a)
      const int N = 1e7 + 1024;
      11 ans[2][N];
24.
      const 11 \mod = 1e9 + 7;
      int main()
          ans[0][0] = ans[1][0] = 1;
27.
          for (int i = 1; i < N; ++i) {
              for (int j = 2; j \le 3; ++j) {
                  ans[j-2][i] = 111 * ans[j-2][i-1] * j % mod;
          int t;
          scanf("%d", &t);
          while(t--) {
              int a, p;
              scanf ("%d%d", &a, &p);
              if(a == 0) puts("0");
              else if (a == 1) puts ("1");
38.
                  printf("%d\n", ans[a-2][p]);
41.
```

```
43. }
44. return 0;
45. }
46.
```

(快速幂解法)

```
* Author: JiangYu
       * Created Time: 2018/5/16 23:25:09
       * File Name: C. cpp
6.
      #include <bits/stdc++. h>
      using namespace std;
      #define 11 long long
8.
      #define MP make_pair
9.
      #define PB push_back
      #define X first
      #define Y second
      #define FI first
14.
      #define SE second
      #define inf 0x3f3f3f3f
      #define FOR(i, a, b) for (int i = a; i \le b; ++i)
      #define FORD(i, a, b) for(int i = b; i \ge a; --i)
      #define ALL(x) x. begin(), x. end()
      #define REP(i, a) for (int i = 0; i < a; ++i)
      #define DEP(i, a) for(int i = a-1; i \geq 0; --i)
      #define CLR(a) memset(a, 0, sizeof a)
      const 11 \mod = 1e9 + 7;
      11 po(11 a, 11 p) {
          11 \text{ base} = 1;
          a \% = mod;
          while(p) {
              if(p \& 1) base = base * a % mod;
              a = a * a \% mod;
              p >>= 1;
          return base % mod;
34.
      int main() {
          int t;
          scanf ("%d", &t);
          while (t--) {
              11 a, p;
              scanf("%11d%11d", &a, &p);
              if(a == 0) puts("0");
              else if (a == 1) puts ("1");
41.
              else {
                   printf("%11d\n", po(a, p));
43.
44.
          return 0;
47.
48.
```

D.还是数学?

我们把A>B视为一条从A连向B的边,同理A<B视为一条从B连向A的边。则题意转换为n个点,m条边的有向图中,是否存在至少一个环?然后这道题就可以通过简单的搜索解决了。 vis[i] == 0 表示 i 点还未访问过

vis[i] == -1 表示 i 点已经访问过,但是从i点出发的点还未访问完vis[i] == 1 表示 i 点已经访问过,并且从i点出发的点全部访问完毕那么在搜索时,如果遇到从u点出发到达v点时,vis[v] == -1,则表示u是一个从v出发到达的点,同时u还能到达v -> 即u,v之间存在一个环。

```
/*
       * Author: JiangYu
       * Created Time: 2018/5/17 16:10:13
       * File Name: D. cpp
      #pragma comment (linker, "/STACK:102400000, 102400000")
      #include <bits/stdc++.h>
8.
      using namespace std;
      #define 11 long long
9.
      #define MP make pair
      #define PB push back
      #define X first
      #define Y second
      #define FI first
14.
      #define SE second
      #define inf 0x3f3f3f3f
      #define FOR(i, a, b) for (int i = a; i \le b; ++i)
      #define FORD(i, a, b) for(int i = b; i \ge a; --i)
18.
      #define ALL(x) x. begin(), x. end()
      #define REP(i, a) for(int i = 0; i < a; ++i)
      #define DEP(i, a) for(int i = a-1; i \ge 0; --i)
      #define CLR(a) memset(a, 0, sizeof a)
      const int N = 1e5 + 1024;
      struct edge{
           int to, nex;
      } ed[N];
      int head[N] , cnt;
      int vis[N];
28.
      void add(int from, int to) {
           ed[cnt]. to = to;
           ed[cnt].nex = head[from];
          head[from] = cnt++;
      void dfs(int u) {
          vis[u] = -1;
          for (int i = head[u]; i = ed[i].nex) {
               int v = ed[i]. to;
               if(vis[v] == 0) {
38.
                  dfs(v);
                  vis[v] = 1;
41.
               if(vis[v] == -1) {
                   printf("ohu!");
                   exit(0):
47.
      int main() {
48.
          memset(head, -1, sizeof head);
          memset(vis, 0, sizeof vis);
          int n, m;
          scanf("%d%d", &n, &m);
           for (int i = 1; i \le m; ++i) {
54.
               int u, v;
               char ch[5];
               scanf("%d%s%d", &u, ch, &v);
if(ch[0] == '>') {
58.
                   add(u, v);
               else {
                   add(v, u);
61.
```

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