牛客多校第二场

这场彻底跪了。

那我贴一贴莫名WA掉的代码们吧。如果读者能找到到底是哪里WA掉了，麻烦您联系我一下。

C

我觉得从奇顶点开始DFS一定没错。但是评测机不这么认为……

```
#include<stdio.h>
#include<vector>

using namespace std;

int degree[200010];

vector<int> Adj[200010];
bool vis[200010] = {false};

int flag;

void DFS(int u)
{
    vis[u]=true;
    if(degree[u]%2==1)
    {
        printf("%d",u);
        (flag==0)?putchar(' '):putchar('\n');
        flag^=1;
    }
    int i;
    for(i=0;i<Adj[u].size();i++)
    {
        int v=Adj[u][i];
        if(vis[v]==false)
        {
            DFS(v);
        }
    }
}

int main()
{
    int n;
    scanf("%d",&n);
    if(n==1)
```

```
    {
        printf("1\n1 1\n");
        return 0;
    }
    int m=n-1;
    int x,y;
    int sum=0;
    while(m--)
    {
        scanf("%d%d",&x,&y);
        degree[x]++;
        degree[y]++;
        Adj[x].push_back(y);
        Adj[y].push_back(x);
        if(degree[x]%2==1&&degree[y]%2==1)
        {
            sum++;
        }
        else if(degree[x]%2==0&&degree[y]%2==0)
        {
            sum--;
        }
    }
    printf("%d\n",sum);
    flag=0;
    int u;
    for(u=0;u<n;u++)
    {
        if(vis[u]==false&&degree[u]%2==1)
        {
            DFS(u);
            break;
        }
    }
}
```

后记：我知道错到哪里了！我一直以为是不重复的覆盖……

其实重复也是可以的，也就是说我硬生生拔高了原题的难度……

唉，怪不得。那么代码就更简单了low的不谈

上面这个代码是不重复覆盖的优秀代码

B

储存斜率用了两种做法。开longlong那个TLE掉了double那个WA了，实在无语……

#include<iostream> #include<vector> #include<map>

using namespace std;

#define x first #define y second

vector<pair<double,double> > points;

int maxPoints() {

```
  int res = 0;
  for (int i = 0; i < points.size(); ++i)
{
      map<double,int> m;
      int duplicate = 1;
      for (int j = i + 1; j < points.size(); ++j)
    {
          if (points[i].x== points[j].x&& points[i].y== points[j].y)
        {
              ++duplicate;
            continue;
          }
          if(points[j].x*points[i].y==points[i].x*points[j].y)
          {
            continue;
        }
          double dx = points[j].x- points[i].x;
          double dy = points[j].y- points[i].y;
          ++m[{dx/dy}];
      }
      res = max(res, duplicate);
      map<double,int>::iterator it;
      for (it = m.begin(); it != m.end(); ++it)
    {
          res = max(res, it->second + duplicate);
      }
  }
  return res;
```

}

int main() {

```
int n;
scanf("%d",&n);
double x,y;
while(n--)
{
    cin >> x >> y;
    double temp=x*x+y*y;
    points.push_back(make_pair(x/temp,y/temp));
}
```

```
cout << maxPoints() << endl;
return 0 ;

}
```

#include<iostream> #include<vector> #include<map>

using namespace std;

vector<pair<long long,long long> > points;

long long gcd(long long a,long long b) {

```
  return (b == 0) ? a : gcd(b, a % b);

}
```

int maxPoints() {

```
  int res = 0;
  for (int i = 0; i < points.size(); ++i)
{
      map<pair<int, int>, int> m;
      int duplicate = 1;
      for (int j = i + 1; j < points.size(); ++j)
    {
          if (points[i].first== points[j].first&& points[i].second==
points[j].second)
        {
             ++duplicate;
            continue;
          }
          long long x1=points[i].first;
          long long x2=points[j].first;
          long long y1=points[i].second;
          long long y2=points[j].second;
          if(x1*y2==y1*x2)
          {
            continue;
        }
          long long dx =x2*(x1*x1+y1*y1)-x1*(x2*x2+y2*y2);
          long long dy =y2*(x1*x1+y1*y1)-y1*(x2*x2+y2*y2);
          long long d = gcd(dx, dy);
          ++m[{dx / d, dy / d}];
      }
      res = max(res, duplicate);
      map<pair<int,int>,int>::iterator it;
      for(it = m.begin(); it != m.end(); ++it)
    {
          res = max(res, it->second + duplicate);
      }
```

```
  }
  return res;
```

}

int main() {

```
int n;
scanf("%d",&n);
long long x,y;
while(n--)
{
    cin >> x >> y;
    points.push_back(make_pair(x,y));
}
cout << maxPoints() << endl;
return 0 ;
```

}