

# 牛客多校第五场

这场的题目好啊！

一般有规律，奇数场可能偏向数学计算，偶数场更考验玛俐码力。在本人的码力实在不足的情况下，看来更喜欢考验思维量的题目。

(成功地首次独立写出了Prim算法/\*优先队列优化\*/——然而什么也没有发生/\*只过了10%样例\*/)

## D

因为轮换不影响，不妨在纸上按照圆形排序整个序列，找规律会发现其实就是一个简单的最长上升子序列[] DP就完事了。

(和弦转位的背景还挺有趣的)

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

int j, s, n, t, a[100001], b[100001], ans = 0;

int main()
{
    scanf("%d",&n);
    a[0]=-1000000;
    int i;
    for(i=1;i<=n;i++)
    {
        scanf("%d", &b[i]);
        b[i + 2 * n] = b[i + n] = b[i];
    }
    int j;
    for(j = 0; j < n; j++)
    {
        s = 0;
        memset(a, 0, sizeof(a));
        for(i = 0 + j; i < n + j; i++)
        {
            t = b[i + 1];
            if(t > a[s]) a[++s] = t;
            else
            {
                int l = 1, h = s, m;
                while(l <= h)
                {
                    m = (l + h) / 2;
                    (t > a[m])?(l = m + 1):(h = m - 1);
                }
                a[l] = t;
            }
        }
    }
}
```

```
    }  
    }  
    ans =(ans>s)?ans:s;  
}  
printf("%d\n",n-ans);  
}
```

## E

我们队是用Java过的。本来想写个高精度，奈何不会写，奈何有这样取巧的方法。

我还考虑要不要存入set的时候保证互素，使得高精度只需FFT就行了——后来发现Java竟然可以完美避开。马佬看来之前用过BigInteger类，我还是第一次听说。

为什么不写Python呢？因为编程类的专业课有Java却没有Python导致我能看懂与维护Java但是还完全不会Python.....虽然都是面向对象。

(这样看来C++的面向对象就是zhazha——元首)

```
import java.math.BigInteger;  
import java.util.HashSet;  
import java.util.Scanner;  
  
public class Main  
{  
    static BigInteger[] a = new BigInteger[100005];  
    static boolean[] vis = new boolean[100005];  
    int n;  
    public static void main(String[] args)  
    {  
        Scanner sc = new Scanner(System.in);  
        int n = sc.nextInt();  
        for (int i = 1; i < n + 1; i++)  
        {  
            int temp = sc.nextInt();  
            a[i] = BigInteger.valueOf(temp);  
        }  
        sc.close();  
        int cnt;  
        BigInteger t;  
        HashSet<BigInteger> ans = new HashSet<>();  
        for (int i = 1; i < n + 1; i++)  
        {  
            if (vis[i])  
            {  
                continue;  
            }  
            vis[i] = true;  
        }  
    }  
}
```

```

        t = BigInteger.valueOf(i);
        cnt = 1;
        while (!a[t.intValue()].equals(BigInteger.valueOf(i)))
        {
            vis[a[t.intValue()].intValue()] = true;
            t = a[t.intValue()];
            cnt++;
        }
        ans.add(BigInteger.valueOf(cnt));
    }
    BigInteger ans1 = BigInteger.valueOf(1);
    for (BigInteger e : ans)
    {
        BigInteger gcd = ans1.gcd(e);
        ans1 = ans1.multiply(e.divide(gcd));
    }
    System.out.println(ans1);
}
}
}

```

看了标程，用C++补一补题。

```

#include<stdio.h>

#include<map>

using namespace std;

int ww;

int n, p[100010];

map<int,int> fac;

int solve(int pos)
{
    int cnt = 0;
    while(p[pos])
    {
        int nxt = p[pos];
        p[pos] = 0;
        pos = nxt;
        ++cnt;
    }
    return cnt;
}

void factor(int x)
{

```

```
int i;
for(i = 2; i*i <= x; ++i)
{
    if( x % i == 0 )
    {
        int cnt = 0;
        while(x % i == 0)
        {
            x /= i;
            ++cnt;
        }
        fac[i] =max(fac[i], cnt);
    }
}
if(x != 1)
{
    fac[x] =max(fac[x], 1);
}
}

int num[100010], len;

void multiply(int x)
{
    int c = 0;
    int i;
    for(i = 0; i < len; ++i)
    {
        long long tmp = (long long)x * num[i] + c;
        num[i] = int(tmp % 1000000);
        c = int(tmp / 1000000);
    }
    if( c )
    {
        num[len++] = c;
    }
}

int main()
{
    ww = scanf("%d", &n);
    int i;
    for(i = 1; i <= n; ++i)
    {
        ww = scanf("%d", p+i);
    }
    for(i = 1; i <= n; ++i)
    {
        if(p[i])
        {
```

```
        factor(solve(i));
    }
}
num[0] = 1, len = 1;
map<int,int>::iterator it;
for(it = fac.begin(); it != fac.end(); ++it)
{
    int now = 1;
    while(it->second--)
    {
        now *= it->first;
    }
    multiply(now);
}
for(i = len-1; i >= 0; --i)
{
    if(i==len-1)
    {
        printf("%d", num[i]);
    }
    else
    {
        printf("%06d", num[i]);
    }
}
puts("");
return 0;
}
```

## F

啥都不说，胡佬厉害！打印图形这种足以证明编程水平：

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

int a[105];
int b[105];
int c[105];

int main()
{
    int n, maxl = 0;
    scanf("%d",&n);
    int i;
    for(i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
```

```
    max1 =(max1>a[i])?max1:a[i];
}
for(i=0;i<n;i++)
{
    if(a[i] == max1)
    {
        b[i] = 1;
    }
    c[i] = ceil(50.0 * a[i] / max1);
}
for(i=0;i<n;i++)
{
    printf("+");
    int j;
    for(j=0;j<c[i];j++)
    {
        printf("-");
    }
    printf("+\n");
    printf("|");
    for(j=0;j<c[i]-1;j++)
    {
        printf(" ");
    }
    if(b[i] == 1)
    {
        printf("*|%d\n", a[i]);
    }
    else
    {
        (c[i])?printf(" |%d\n", a[i]):printf("|%d\n", a[i]);
    }
    printf("+");
    for(j=0;j<c[i];j++)
    {
        printf("-");
    }
    printf("+\n");
}
}
```

I

水。

```
#include<stdio.h>

int main()
```

```
{  
    printf("0.666667");  
    return 0;  
}
```

## B

以下是补题。

看了标程DFS的思路和我一模一样，但是后面最小生成树没有用Prim而是选择了类似于Kruskal或者其他的优化方法。

```
#include<stdio.h>  
  
#include<algorithm>  
#include<vector>  
  
using namespace std;  
  
int fd(int N, int* A, int M, int* B, int K)  
{  
    if(N==0 || M==0)  
    {  
        return 1<<K;  
    }  
    if(K==0)  
    {  
        return 0;  
    }  
    int X=lower_bound(A, A+N, ((A[0]>>K-1)|1)<<K-1)-A;  
    int Y=lower_bound(B, B+M, ((B[0]>>K-1)|1)<<K-1)-B;  
    if(X==0 && Y==M || X==N && Y==0)  
    {  
        return fd(N, A, M, B, K-1) + (1<<(K-1));  
    }  
    return min(fd(X, A, Y, B, K-1), fd(N-X, A+X, M-Y, B+Y, K-1));  
}  
  
long long solve(int N, int* A, int K)  
{  
    if(N == 1)  
    {  
        return 0;  
    }  
    int X =lower_bound(A, A+N, ((A[0] >> (K-1))|1) << (K-1)) - A;  
    if(X==0 || X==N)  
    {  
        return solve(N, A, K-1);  
    }  
}
```

```
    return (1ll << (K-1)) + fd(X, A, N-X, A+X, K-1) + solve(X, A,
K-1)+solve(N-X, A+X, K-1);
}

vector<pair<int,int> > G[202020];

int N, A[202020];

bool vis[202020];

void dfs(int x)
{
    vis[x] = 1;
    vector<pair<int,int> >::iterator e;
    for(e=G[x].begin();e!=G[x].end();e++)
    {
        if(!vis[e->first])
        {
            A[e->first] = A[x] ^ e->second;
            dfs(e->first);
        }
    }
}

int main()
{
    scanf("%d", &N);
    int i;
    for(i = 1; i < N; i++)
    {
        int u, v, w;
        scanf("%d%d%d", &u, &v, &w);
        G[u].push_back(make_pair(v,w));
        G[v].push_back(make_pair(u,w));
    }
    A[0] = 0;
    dfs(0);
    sort(A, A+N);
    N =unique(A, A+N) - A;
    printf("%lld\n", solve(N, A, 30));
    return 0;
}
```

## C

比赛的时候没有看这道题，后来看了题解，才发现这是一道难得的生成函数的题目。

(好题啊)

```
#include<stdio.h>

#define mod 998244353

int fac[2020202],ffac[2020202];

int C(int n,int m)
{
    return 1ll*fac[n]*ffac[m]%mod*ffac[n-m]%mod;
}

int qpow(int n,int k)
{
    int ret = 1;
    while(k)
    {
        if(k&1)
        {
            ret = 1ll * ret * n % mod;
        }
        n = 1ll * n * n % mod;
        k /= 2;
    }
    return ret;
}

int main()
{
    fac[0] = 1;
    int i;
    for(i = 1; i <= 2e6; i++)
    {
        fac[i] = 1ll * fac[i-1] * i % mod;
    }
    ffac[2000000] = qpow(fac[2000000], mod - 2);
    for(i = 2e6; i >= 1; i--)
    {
        ffac[i - 1] = 1ll * ffac[i] * i % mod;
    }
    int T;
    scanf("%d", &T);
    while(T--)
    {
        int N, M, K;
        scanf("%d%d%d", &N, &M, &K);
        int ans = 0;
        for(i = 0; i <=(N<M?N:M) - K; i++)
        {
            ans += 1ll * C(i + K - 1, K - 1) * C(N - i - 1, K - 1) % mod *
C(M - i - 1, K - 1) % mod;
        }
    }
}
```

```
        if(ans >= mod)
        {
            ans -= mod;
        }
    }
    printf("%d\n",ans);
}
return 0;
}
```

J

有趣的计算几何。简单改了改标程，接下来基本可以简化成为C代码了。

```
#include<stdio.h>
#include<stdlib.h>
#include<math.h>

#define pi acos((long double)-1)
#define eps 1e-11

long double aabs(long double x)
{
    return (long double)(x>0?x:(-x));
}

struct dn
{
    long double x,y;
};

struct dn operator+(struct dn u,struct dn v)
{
    return(struct dn){u.x+v.x,u.y+v.y};
}

struct dn operator-(struct dn u,struct dn v)
{
    return(struct dn){u.x-v.x,u.y-v.y};
}

struct dn operator*(long double u,struct dn v)
{
    return(struct dn){u*v.x,u*v.y};
}

struct dn operator/(struct dn u,long double v)
```

```
{
    return(struct dn){u.x/v,u.y/v};
}

long double operator/(struct dn u,struct dn v)
{
    return u.x*v.y-v.x*u.y;
}

long double operator*(struct dn u,struct dn v)
{
    return u.x*v.x+u.y*v.y;
}

long double dis(struct dn o)
{
    long double temp=o.x*o.x+o.y*o.y>0?o.x*o.x+o.y*o.y:0;
    return sqrt(temp);
}

struct dn dd(long double o)
{
    return(struct dn){cos(o),sin(o)};
}

struct dn g[5];
int top;

void swap(struct dn *a,struct dn *b)
{
    struct dn temp>(*a);
    (*a)=(*b);
    (*b)=temp;
}

void sswap(long double *a,long double *b)
{
    long double temp>(*a);
    (*a)=(*b);
    (*b)=temp;
}

int jd(struct dn o1,long double r1,struct dn o2,long double r2,struct dn
p,struct dn q,struct dn *u,struct dn *v)
{
    top=0;
    struct dn o=(o1-p)*(q-p)*(q-p)/((q-p)*(q-p))+p;
    if(dis(o-o1)<r1-eps)
    {
        g[top]=(o+sqrt(r1*r1-(o1-o)*(o1-o))*(q-p)/dis(q-p));
        top++;
    }
}
```

```
    g[top]=(o-sqrt(r1*r1-(o1-o)*(o1-o))*(q-p)/dis(q-p));
    top++;
}
o=(o2-p)*(q-p)*(q-p)/((q-p)*(q-p))+p;
if(dis(o-o2)<r2-eps)
{
    g[top]=(o+sqrt(r2*r2-(o2-o)*(o2-o))*(q-p)/dis(q-p));
    top++;
    g[top]=(o-sqrt(r2*r2-(o2-o)*(o2-o))*(q-p)/dis(q-p));
    top++;
}
int i;
for(i=0;i<top;i++)
{
    int ok=0;
    int j;
    for(j=0;j<i;j++)
    {
        if(dis(g[i]-g[j])<eps)
        {
            ok=1;
        }
    }
    if(dis(g[i]-o1)>r1+eps||dis(g[i]-o2)>r2+eps)
    {
        ok=1;
    }
    if((g[i]-p)*(q-p)<-eps)
    {
        ok=1;
    }
    if(ok)
    {
        swap(&g[i],&g[top-1]);
        top--;
        i--;
    }
}
if(top>0)
{
    *u=g[0];
}
if(top>1)
{
    *v=g[1];
}
if(top==2&&((*u)-p)*(q-p)>((*v)-p)*(q-p))
{
    swap(&(*u),&(*v));
}
}
```

```

    return top;
}

long double arc(struct dn o, long double r, struct dn u, struct dn v)
{
    long double w=(v-o)*(u-o)/r/r;
    w=(long double)(w>(-1)?w:(-1));
    w=(long double)(w<1?w:1);
    if((o-u)/(v-u)>0)
    {
        return 0.5*acos(w)*r*r-0.5*aabs((v-o)/(u-o));
    }
    else
    {
        return pi*r*r-0.5*acos(w)*r*r+0.5*aabs((v-o)/(u-o));
    }
}

long double ar(struct dn o1, long double r1, struct dn o2, long double
r2, struct dn u, struct dn v, int www)
{
    if(dis(o2-o1)<r2-r1+eps)
    {
        if(www)
        {
            return pi*r1*r1;
        }
        else
        {
            return arc(o1, r1, u, v);
        }
    }
    struct dn d1, d2;
    struct dn o=(r1*r1+(o2-o1)*(o2-o1)-r2*r2)/(2*r1*dis(o2-o1))*r1*(o2-
o1)/dis(o2-o1);
    struct dn w=sqrt(r1*r1-o*o)*o/dis(o);
    d1=o1+o+(struct dn){w.y, -w.x};
    d2=o1+o-(struct dn){w.y, -w.x};
    if(o*(o2-o1)<eps)
    {
        swap(&d1, &d2);
    }
    long double aa=arc(o1, r1, d2, d1)+arc(o2, r2, d1, d2);
    if(www)
    {
        return aa;
    }
    if((u-d1)/(d2-d1)<eps&&(v-d1)/(d2-d1)<eps)
    {
        if((0.5*(d1+d2)-u)/(v-u)>eps|| (0.5*(d1+d2)-u)/(v-u)>-eps&&(v-
u)*(d2-d1)>0)

```

```
        {
            return arc(o2,r2,u,v);
        }
        else
        {
            return aa-arc(o2,r2,v,u);
        }
    }
    if((u-d1)/(d2-d1)>-eps&&(v-d1)/(d2-d1)>-eps)
    {
        if((0.5*(d1+d2)-u)/(v-u)>eps|| (0.5*(d1+d2)-u)/(v-u)>-eps&&(v-u)*(d1-d2)>0)
        {
            return arc(o1,r1,u,v);
        }
        else
        {
            return aa-arc(o1,r1,v,u);
        }
    }
    if((u-d1)/(d2-d1)>-eps)
    {
        return arc(o1,r1,u,d1)+arc(o2,r2,d1,v)+0.5*aabs((u-d1)/(v-d1));
    }
    else
    {
        return arc(o1,r1,d2,v)+arc(o2,r2,u,d2)+0.5*aabs((u-d2)/(v-d2));
    }
}

long double cc(long double p,long double q,struct dn o1,long double r1,struct dn o2,long double r2)
{
    if(dis(o1-o2)>r1+r2-eps)
    {
        return 0;
    }
    if(r1>r2)
    {
        swap(&o1,&o2);
        sswap(&r1,&r2);
    }
    if(r1<eps)
    {
        return 0;
    }
    if(dis(o1)<r1-eps&&dis(o2)<r2-eps)
    {
        struct dn u,v;
        jd(o1,r1,o2,r2,(struct dn){0,0},dd(p),&u,&v);
    }
}
```

```

jd(o1,r1,o2,r2,(struct dn){0,0},dd(q),&v,&u);
return dis(u-v)<eps?0:ar(o1,r1,o2,r2,v,u,0)+0.5*aabs(u/v);
}
else
{
    struct dn u1,u2,v1,v2;
    int ok1,ok2;
    ok1=jd(o1,r1,o2,r2,(struct dn){0,0},dd(p),&u1,&u2);
    ok2=jd(o1,r1,o2,r2,(struct dn){0,0},dd(q),&v1,&v2);
    if(ok1==1)
    {
        ok1=0;
    }
    if(ok2==1)
    {
        ok2=0;
    }
    long double aa=ar(o1,r1,o2,r2,(struct dn){0,0},(struct dn){0,0},1);
    if(!ok1&&!ok2)
    {
        struct dn o;
        if(dis(o1-o2)<r2-r1+eps)
        {
            o=o1;
        }
        else
        {
            o=(r1*r1+(o2-o1)*(o2-o1)-r2*r2)/(2*r1*dis(o2-o1))*r1*(o2-
o1)/dis(o2-o1)+o1;
        }
        if(o/dd(p)<-eps&&o/dd(q)>eps)
        {
            return aa;
        }
        else
        {
            return 0;
        }
    }
    if(ok1)
    {
        aa=ar(o1,r1,o2,r2,u2,u1,0);
    }
    if(ok2)
    {
        aa=ar(o1,r1,o2,r2,v1,v2,0);
    }
    return aa;
}
}
}

```

```
int main()
{
    int t=100000;
    scanf("%d",&t);
    int tt;
    for(tt=1;tt<=t;tt++)
    {
        double a,a1,a2,z1,z2,r1,r2;
        a=rand()%89+1;
        a1=rand()%360;
        a2=rand()%360;
        z1=rand()%2001;
        z2=rand()%2001;
        r1=rand()%2001;
        r2=rand()%2001;
        scanf("%lf%lf%lf%lf%lf%lf%lf%lf",&a,&a1,&a2,&z1,&z2,&r1,&r2);
        a2=a2-a1+360;
        if(a2>=360)
        {
            a2-=360;
        }
        a1=0;
        if(a2>180)
        {
            a2=360-a2;
        }
        a=sin(a/180*pi);
        long double ans=0;
        ans+=cc(0,a2/180*pi*a,z2*dd(a2/180*pi*a),r2,z1*dd(0),r1);
        ans+=cc(0,(180-a2)/180*pi*a,z2*dd(0),r2,z1*dd(-a2/180*pi*a),r1);
        ans+=cc(0,a2/180*pi*a,z2*dd(-(180-a2)/180*pi*a),r2,z1*dd(pi*a),r1);
        ans+=cc(0,(180-a2)/180*pi*a,z2*dd(pi*a),r2,z1*dd((180-
a2)/180*pi*a),r1);
        printf("%.30f\n",(double)ans);
    }
}
```

## K

这又是一个大作业题目了。没想到竟然可以简单地用C语言完成。

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

const char op1[]="<<<<<< branch1";
const char op2[]="=====";
const char op3[]=">>>>>> branch2";
```

```
struct pp
{
    int first;
    int second;
};

struct pp makepp(int a,int b)
{
    struct pp temp;
    temp.first=a;
    temp.second=b;
    return temp;
}

struct pp op1hash,op2hash,op3hash;

char s1[4007][267],s2[4007][267];
int len1[4007],len2[4007];
char s[267];
int n1=0,n2=0;

struct pp hash1[4007],hash2[4007];

short f[4007][4007][3],g[4007][4007][3];

struct qq
{
    struct pp first;
    int second;
};

struct qq makeqq(struct pp a,int b)
{
    struct qq temp;
    temp.first=a;
    temp.second=b;
    return temp;
}

struct qq que[4007];

int cnt=0;

int main()
{
    op1hash=makepp(0,0);
    int i;
    for(i=0;i<strlen(op1);i++)
    {
        op1hash.first=(1LL*307*op1hash.first+op1[i]+1)%998244353;
```

```
    op1hash.second=(1LL*307*op1hash.second+op1[i]+1)%100000007;
}
op2hash=makepp(0,0);
for(i=0;i<strlen(op2);i++)
{
    op2hash.first=(1LL*307*op2hash.first+op2[i]+1)%998244353;
    op2hash.second=(1LL*307*op2hash.second+op2[i]+1)%100000007;
}
op3hash=makepp(0,0);
for(i=0;i<strlen(op3);i++)
{
    op3hash.first=(1LL*307*op3hash.first+op3[i]+1)%998244353;
    op3hash.second=(1LL*307*op3hash.second+op3[i]+1)%100000007;
}
int curstatus=0;
char ch=getchar();
while(ch!=EOF)
{
    int len=0;
    while(ch!='\n' && ch!=EOF)
    {
        s[len++]=ch;
        ch=getchar();
    }
    struct pp h=makepp(0,0);
    for(i=0;i<len;i++)
    {
        h.first=(1LL*307*h.first+s[i]+1)%998244353;
        h.second=(1LL*307*h.second+s[i]+1)%100000007;
    }
    if(h.first==op1hash.first&&h.second==op1hash.second)
    {
        curstatus=1;
    }
    else if(h.first==op2hash.first&&h.second==op2hash.second)
    {
        curstatus=2;
    }
    else if(h.first==op3hash.first&&h.second==op3hash.second)
    {
        curstatus=0;
    }
    else
    {
        if(curstatus!=1)
        {
            len2[++n2]=len;
            hash2[n2]=h;
            for(i=0;i<len;i++)
            {
```

```
        s2[n2][i]=s[i];
    }
}
if(curstatus!=2)
{
    len1[++n1]=len;
    hash1[n1]=h;
    for(i=0;i<len;i++)
    {
        s1[n1][i]=s[i];
    }
}
}
if(ch!=EOF)
{
    ch=getchar();
}
}
for(i=0;i<=n1;i++)
{
    int j;
    for(j=0;j<=n2;j++)
    {
        int k;
        for(k=0;k<3;k++)
        {
            f[i][j][k]=10007;
            g[i][j][k]=0;
        }
    }
}
f[0][0][0]=0;
f[0][0][1]=1;
g[0][0][1]=0;
f[0][0][2]=1;
g[0][0][2]=0;
for(i=0;i<=n1;i++)
{
    int j;
    for(j=0;j<=n2;j++)
    {
        if(i==0&&j==0)
        {
            continue;
        }
        if(i>0)
        {
            if(f[i][j][1]>f[i-1][j][1]+1)
            {
                f[i][j][1]=f[i-1][j][1]+1;
                g[i][j][1]=-1;
            }
        }
    }
}
```

```
    }
    }
    if(j>0)
    {
        if(f[i][j][2]>f[i][j-1][2]+1)
        {
            f[i][j][2]=f[i][j-1][2]+1;
            g[i][j][2]=-1;
        }
    }
if(i>0&&j>0&&hash1[i].first==hash2[j].first&&hash1[i].second==hash2[j].second)
{
    if(f[i][j][0]>f[i-1][j-1][0]+1)
    {
        f[i][j][0]=f[i-1][j-1][0]+1;
        g[i][j][0]=-1;
    }
}
int k1;
for(k1=0;k1<3;k1++)
{
    int k2;
    for(k2=0;k2<3;k2++)
    {
        if(f[i][j][k1]>f[i][j][k2]+1)
        {
            f[i][j][k1]=f[i][j][k2]+1;
            g[i][j][k1]=k2;
        }
    }
}
}
}
que[++cnt]=makeqq(makepp(n1,n2),0);
while(que[cnt].first.first!=0||que[cnt].first.second!=0||que[cnt].second!=0)
{
    int x=que[cnt].first.first;
    int y=que[cnt].first.second;
    int k=que[cnt].second;
    if(g[x][y][k]!=-1)
    {
        k=g[x][y][k];
    }
    else if(k==0)
    {
        --x,--y;
    }
    else if(k==1)
```

```
    {
        --x;
    }
    else
    {
        --y;
    }
    que[++cnt]=makeqq(makepp(x,y),k);
}
for(i=cnt-1;i;i--)
{
    int x=que[i].first.first;
    int y=que[i].first.second;
    int k=que[i].second;
    if(g[x][y][k]!=-1)
    {
        if(g[x][y][k]==0)
        {
            if(k==1)
            {
                printf("#ifdef branch1\n");
            }
            else if(k==2)
            {
                printf("#ifdef branch2\n");
            }
        }
        else
        {
            if(k==0)
            {
                printf("#endif\n");
            }
            else
            {
                printf("#else\n");
            }
        }
    }
}
else
{
    if(k==1)
    {
        int ii;
        for(ii=0;ii<len1[x];ii++)
        {
            printf("%c",s1[x][ii]);
        }
        printf("\n");
    }
    else
```

```
    {
        int ii;
        for(ii=0;ii<len2[y];ii++)
        {
            printf("%c",s2[y][ii]);
        }
        printf("\n");
    }
}
return 0;
}
```

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