## noip 看程序写结果练习1

```
#include <cstdio>
const int N=100005;
inline int mx(int a, int b) {
    return a>b?a:b;
}
inline int work(int sum) {
    char a;
    while (~scanf ("%c", &a)) {
        if (a==')') return sum;
        if (a=='a') sum++;
        if (a=='(') sum+=work(0);
        if (a=='|') {sum=mx(sum,work(0));break;}
    return sum;
int main () {
    printf ("%d\n", work(0));
    return 0;
输入: aa(aa)|(aa|(a|aa))aa
输出:
#include<iostream>
#include<algorithm>
using namespace std;
int n,r,q;
int a[200100], win[200100], lose[200100];
int s[200100], w[200100];
bool cmp(int x, int y)
{
  if (s[x] == s[y]) return x < y;
  return s[x]>s[y];
}
void merge()
  int i, j;
  i=j=1, a[0]=0;
  while (i <= win [0] && j <= lose [0])
     if(cmp(win[i],lose[j]))
        a[++a[0]]=win[i++];
     else
        a[++a[0]]=lose[j++];
```

```
while (i \le win[0]) a[++a[0]] = win[i++];
  while (j \le lose[0]) a [++a[0]] = lose[j++];
}
int main()
{
  cin>>n>>r>>q;
  n * = 2;
  for (int i=1; i<=n; i++)a[i]=i;
  for(int i=1; i<=n; i++)cin>>s[i];
  for(int i=1; i<=n; i++)cin>>w[i];
  sort(a+1,a+n+1,cmp);
  for(int i=1; i<=r; i++)
     win[0] = lose[0] = 0;
     for (int j=1; j <=n; j+=2)
        if(w[a[j]]>w[a[j+1]])
        {
           s[a[j]]++;
           win[++win[0]]=a[j];
           lose[++lose[0]]=a[j+1];
        }
        else
        {
           s[a[j+1]]++;
           win[++win[0]]=a[j+1];
           lose[++lose[0]]=a[j];
     merge();
  }
  cout<<a[q];
  return 0;
输入:
2 4 2
7 6 6 7
10 5 20 15
输出:
\equiv
#include <cstdio>
#include <cstdlib>
#include <cstring>
#include <algorithm>
```

```
#define Open(s) freopen(s".in", "r", stdin);
freopen(s".out", "w", stdout);
#define Close fclose(stdin); fclose(stdout);
\#define lowbit(x) x\&(-x)
#define mo 92084931
using namespace std;
int n,M;
int ans;
int maxb;
int a[200001];
int b[200001];
int c[200001];
void input(int x)
{
    ++c[x];
    if (c[x] \ge mo) c[x] -= mo;
    for (; x \le \max; x + = lowbit(x))
         ++b[x];
         if (b[x] \ge mo) b[x] -= mo;
    }
int getsum(int x)
{
    int sum=-1*(c[x]);
    for (; x; x-=lowbit(x))
         sum+=b[x];
         if(sum>=mo) sum-=mo;
    return sum;
bool cmp(int x, int y)
{
    return a[x] < a[y];
}
int main()
{
    Open("smsz");
    scanf("%d %d", &n, &M);
    for(int i=1; i<=n; ++i)
         int x;
         scanf("%d",&x);
         a[i] = a[i-1] + x - M;
```

```
c[i]=i;
    sort(c, c+n+1, cmp);
    for(int i=0;i<=n;++i)
         for (int j=i+1; j \le n \&\& a[c[i]] ==a[c[j]]; ++j)
             b[c[\dot{j}]] = -1;
         a[c[i]]=a[c[i-1]]+1;
         if(b[c[i]]<0)
             a[c[i]] += b[c[i]];
             b[c[i]]=0;
         }
        if (a[c[i]]>maxb) maxb=a[c[i]];
    memset(c,0,sizeof(c));
    for(int i=0;i<=n;++i)
        input(a[i]);
         ans+=getsum(a[i]);
         for(;ans>=mo;ans-=mo);
    printf("%d", ans);
    Close;
    return 0;
输入:
5 2 7 3
输出:
```