

2018 年 ACM 基地招新试题（参考答案）

提示：以下所给代码均为我提交正确通过的代码，所有题目答案不唯一，我的做法仅供参考。

1. 2018 我们要赢（10 point(s)）

```
#include<stdio>
int main(){printf("2018\nwe gonna win!\n");
    return 0;
}
```

2. 就不告诉你（15 point(s)）

```
#include<stdio>
int main(){int m,n,ans,flag;
    while(scanf("%d%d",&m,&n)!=EOF){
        flag=1;
        ans=m*n;
        if(ans==0) printf("0");
        while(ans){
            if(ans%10==0&&flag==1);
            else {
                printf("%d",ans%10);flag=0;
            }
            ans=ans/10;
        }
        printf("\n");
    }
}
```

测试点分析：

测试点 1（样例换 1 个数，3 分）：5 3（输入）51（输出）

测试点 2（一般情况，4 分）：1234 4567（输入）2566007（输出）

测试点 3（答案中包含 0，2 分）：4 27（输入）801（输出）

测试点 4（最小位数，1 分）：2 3（输入）6（输出）

测试点 5（极限值，答案首尾包含 0，3 分）：10000 10000（输入）1（输出）

测试点 6（一个数是 0，2 分）：0 9999（输入）0（输出）

3. 当你老了（15 point(s)）

```
#include<stdio>
int main(){int x,y,m,n,flag,ans1,ans2;
    while(scanf("%d%d%d",&x,&y,&n)!=EOF){
        flag=0;
        if(x%(n-1)!=0) flag=1;
        else m=x/(n-1);
        if(m*n-y<0||m*n-y>100) flag=1;
        else ans1=m*n-y;
        if(m-y<0||m-y>100) flag=1;
        else ans2=m-y;
    }
}
```

```

        if(flag) printf("Impossible\n");
        else printf("%d %d\n",ans1,ans2);
    }
    return 0;
}

```

测试点分析:

测试点 1 (样例换 1 个数, 答案非整数, 4 分): 22 6 5 (输入) Impossible (输出)

测试点 2 (样例换 1 个数, 一般情况, 5 分): 21 6 4 (输入) 22 1 (输出)

测试点 3 (答案小于 0, 3 分): 28 5 8 (输入) Impossible (输出)

测试点 4 (答案大于 100, 3 分): 100 6 6 (输入) Impossible (输出)

4. 新学期寄语 (20 point(s))

```

#include<stdio>
#include<cstring>
struct student{char name[20];
    int number;
    int num[15],flag[15];
}stu[10000];
int main(){int i,j,k,count1,count2,m,n;
    int forbid[10],flagstu[10000];
    while(scanf("%d%d",&m,&n)!=EOF){
        count1=count2=0;
        memset(flagstu,0,sizeof(flagstu));
        for(i=0;i<n;i++){
            scanf("%d",&forbid[i]);
        }
        for(i=0;i<m;i++){
            scanf("%s %d",stu[i].name,&stu[i].number);
            for(j=0;j<stu[i].number;j++){
                scanf("%d",&stu[i].num[j]);
                for(k=0;k<n;k++){
                    if(stu[i].num[j]==forbid[k]){
                        if(!flagstu[i]) count1++;
                        flagstu[i]=1;
                        stu[i].flag[j]=1;
                        count2++;
                        break;
                    }
                }
                if(k==n-1){
                    stu[i].flag[j]=0;
                }
            }
        }
    }
    for(i=0;i<m;i++){
        if(flagstu[i]){

```

```

        printf("%s:",stu[i].name);
        for(j=0;j<stu[i].number;j++){
            if(stu[i].flag[j])
                printf(" %05d",stu[i].num[j]);
        }
        printf("\n");
    }
}
printf("%d %d\n",count1,count2);
}
return 0;
}

```

测试点分析:

测试点 1 (样例换 1 个数, 一般情况, 9 分):

4 3
 23333 66666 88888
 CYLL 3 12345 23456 34567
 U 4 99669 66666 88888 66666
 GG 2 23333 77777
 JJ 3 00012 66666 23333 (输入)
 U: 66666 88888 66666
 GG: 23333
 JJ: 66666 23333
 3 6 (输出)

测试点 2 (全部为待查找项, 4 分):

4 2
 23333 66666
 Yangyan 2 23333 66666
 Xiaohong 4 66666 66666 23333 66666
 Yuxuan 1 23333
 Jiaxiang 3 23333 66666 23333 (输入)
 Yangyan: 23333 66666
 Xiaohong: 66666 66666 23333 66666
 Yuxuan: 23333
 Jiaxiang: 23333 66666 23333
 4 10 (输出)

测试点 3 (最小样例, 0 前置, 4 分):

1 1
 00000
 CJLU 1 00001 (输入)
 0 0 (输出)

测试点 4 (最大样例, 极限值, 3 分): 略 (输入) 略 (输出)

5. 输出 CJLU (20 point(s))

```
#include <stdio>
```

```

int n[4];
char c[10005];
int main()
{   int i;
    while(scanf("%s",c)!=EOF){
        for(i=0;c[i]!='\0';i++){
            if(c[i]==67||c[i]==99) n[0]++;
            if(c[i]==74||c[i]==106) n[1]++;
            if(c[i]==76||c[i]==108) n[2]++;
            if(c[i]==85||c[i]==117) n[3]++;
        }
        for(;n[0]!=0||n[1]!=0||n[2]!=0||n[3]!=0;){
            if(n[0]!=0) {printf("C");n[0]--;}
            if(n[1]!=0) {printf("J");n[1]--;}
            if(n[2]!=0) {printf("L");n[2]--;}
            if(n[3]!=0) {printf("U");n[3]--;}
        }
        printf("\n");
    }
    return 0;
}

```

测试点分析:

测试点 1 (样例稍作调整, 一般情况, 8 分):

pCTclnGloRgLr+LhgljkLhGFaUPewSKgtju (输入)

CJLUCJLUJLLLL (输出)

测试点 2 (遍历输出一轮后仅剩一种字符待输出, 3 分):

pcTlnGloRgLr+LhgljkLhGFauPewSKgt (输入)

CJLULLLLL (输出)

测试点 3 (仅剩一种字符待输出, 3 分):

pTlnGloRgLr+LhgljkLhGFaPewSKgt (输入)

LLLLLL (输出)

测试点 4 (遍历输出整轮后结束, 3 分):

pCTclnGJoRgLr+UgjkhGFauPewSKgt (输入)

CJLUCJLU (输出)

测试点 5 (最大样例, 极限值, 3 分): 略 (输入) 略 (输出)

6. 交换苹果 (15 point(s))

```
#include<cstdio>
```

```
#include<algorithm>
```

```
using namespace std;
```

```
int apple[100000];
```

```
int main()
```

```
{   int i,t,n,sum,idea;
```

```
    while(scanf("%d",&t)!=EOF){
```

```
        while(t--){
```

```
scanf("%d",&n);
for(i=0,sum=0;i<n;i++){
    scanf("%d",&apple[i],&idea);
    sum=sum+idea;
}
for(i=0;i<n;i++){
    if(i==0) printf("%d %d\n",apple[n-1],sum);
    else printf("%d %d\n",apple[i-1],sum);
}
}
return 0;
}
```

测试点分析:

测试点 1 (样例稍作调整, 一般情况, 8 分):

```
4
2
0 0
5 30
2
20 25
20 0
3
20 25
20 15
20 10
3
20 25
25 30
30 35 (输入)
5 30
0 30
20 25
20 25
20 50
20 50
20 50
30 90
20 90
25 90 (输出)
```

测试点 2 (特殊情况, 仅有 1 人参与, 无人或部分人有数据存在, 4 分):

```
3
5
0 0
```

```

0 0
0 0
0 0
0 0
1
10 10
4
1 0
0 0
0 1
1 1 (输入)
0 0
0 0
0 0
0 0
0 0
10 10
1 2
1 2
0 2
0 2 (输出)

```

测试点 3（最大样例，极限值，3 分）：略（输入）略（输出）

7. 正餐时间（15 point(s)）

```

#include<cstdio>
#include<algorithm>
using namespace std;
struct list{
    char c[1100];
    int n;
}s[1100],w[1100],d[1100];
int comp(const list &a,const list &b){
    return a.n<b.n;
}
int main()
{
    int t,appetizer,course,dessert,i,j,k,sum;
    while(scanf("%d",&t)!=EOF){
        while(t--){
            scanf("%d%d%d",&appetizer,&course,&dessert);
            for(i=0;i<appetizer;i++)
                scanf("%s %d",s[i].c,&s[i].n);
            for(j=0;j<course;j++)
                scanf("%s %d",w[j].c,&w[j].n);
            for(k=0;k<dessert;k++)
                scanf("%s %d",d[k].c,&d[k].n);

```

```

        sort(s,s+appetizer,comp);
        sort(w,w+course,comp);
        sort(d,d+dessert,comp);
        sum=s[appetizer/2].n+w[course/2].n+d[dessert/2].n;
        printf("%d %s %s %s\n",sum,s[appetizer/2].c,w[course/2].c,d[dessert/2].c);
    }
}
return 0;
}

```

测试点分析:

测试点 1 (样例稍作调整, 一般情况, 6 分):

```

2
1 3 2
Fresh_Cucumber 4
Chow_Mein 5
Rice_Served_with_Chicken_Leg 12
Fried_Vermicelli 17
Steamed_Dumpling 3
Steamed_Stuffed_Bun 4
2 3 1
Stir-fried_Loofah_with_Dried_Bamboo_Shoot 33
West_Lake_Water_Shield_Soup 36
DongPo's_Braised_Pork 54
West_Lake_Fish_in_Vinegar 48
Longjing_Shrimp 188
DongPo's_Crisp 18 (输入)
20 Fresh_Cucumber Rice_Served_with_Chicken_Leg Steamed_Stuffed_Bun
108 West_Lake_Water_Shield_Soup DongPo's_Braised_Pork DongPo's_Crisp (输出)

```

测试点 2 (特殊情况, 均只有一组数据, 全为偶数或全为奇数, 4 分):

```

3
1 1 1
Fresh_Cucumber 4
Chow_Mein 5
Steamed_Dumpling 3
2 4 2
Fresh_Cucumber 14
Stir-fried_Loofah_with_Dried_Bamboo_Shoot 33
West_Lake_Water_Shield_Soup 36
DongPo's_Braised_Pork 54
West_Lake_Fish_in_Vinegar 48
Longjing_Shrimp 188
DongPo's_Crisp 18
Steamed_Stuffed_Bun 24
3 5 3

```

Fresh_Cucumber 34
 Stir-fried_Loofah_with_Dried_Bamboo_Shoot 33
 West_Lake_Water_Shield_Soup 36
 Chow_Mein 15
 Rice_Served_with_Chicken_Leg 12
 Fried_Vermicelli 47
 DongPo's_Braised_Pork 54
 West_Lake_Fish_in_Vinegar 38
 Steamed_Dumpling 13
 Steamed_Stuffed_Bun 14
 DongPo's_Crisp 18 (输入)
 12 Fresh_Cucumber Chow_Mein Steamed_Dumpling
 111 Stir-fried_Loofah_with_Dried_Bamboo_Shoot DongPo's_Braised_Pork
 Steamed_Stuffed_Bun
 86 Fresh_Cucumber West_Lake_Fish_in_Vinegar Steamed_Stuffed_Bun (输出)
 测试点 3, 4 (最大样例, 极限值, 5 分): 略 (输入) 略 (输出)

8. 照花前后镜 (15 point(s))

```

#include<stdio>
#include<cstring>
char c[1000][1000];
int a[1000][1000],b[1000][1000];
int main()
{
    int i,j,n,flag;
    char p;
    while(scanf("%c %d",&p,&n)!=EOF){
        getchar();
        flag=1;
        memset(a,0,sizeof(a));
        memset(b,0,sizeof(b));
        memset(c,' ',sizeof(c));
        for(i=0;i<n;i++){
            for(j=0;j<n;j++){
                c[i][j]=getchar();
                if(c[i][j]!=' ') a[i][j]=1;
                else a[i][j]=0;
            }
            getchar();
        }
        for(i=0;i<n;i++)
            for(j=0;j<n;j++){
                b[i][n-j-1]=a[i][j];
            }
        for(i=0;i<n;i++)
            for(j=0;j<n;j++)
  
```



```

        if(a[i][j]!=b[i][j]){
            flag=0;break;
        }
    if(flag) printf("bu yao zhao le\n");
    for(i=0;i<n;i++){
        for(j=0;j<n;j++){
            if(b[i][j]) printf("%c",p);
            else printf(" ");
        }
        printf("\n");
    }
}
return 0;
}

```

测试点分析:

测试点 1 (样例稍作调整, 一般情况, 6 分):

& 9

```

@ @@@@
@@@ @@@
@ @ @
@@@ @@@
@@@ @@@@@
@@@ @ @ @
@@@ @@@@@
@ @ @ @
@ @@@@ (输入)

```

```

&&&&& &
&&& &&&
& & &
&&& &&&
&&&&& &&&
& & & &&&
&&&&& &&&
& & & &
&&&&& & (输出)

```

测试点 2, 3 (特殊情况, 镜面对称, 每个 2 分, 共 4 分):

% 3

```

@@@
@
@@@ (输入)

```

bu yao zhao le

%%%

%

%%% (输出)

! 4

@@

@ @

@ @

@@

bu yao zhao le

!!

! !

! !

!! (输出)

测试点 4 (最小样例, 极限值, 2 分):

1

@ (输入)

bu yao zhao le

(输出)

测试点 5 (最大样例, 极限值, 3 分): 略 (输入) 略 (输出)

9. 无需调试的游戏程序 (25 point(s))

```
#include<stdio>
```

```
#include<cstring>
```

```
int red[5],blue[5],red_count[5],blue_count[5];
```

```
char Red[5][10]={"iceman","lion","wolf","ninja","dragon"};
```

```
char Blue[5][10]={"lion","dragon","ninja","iceman","wolf"};
```

```
int initial,red_init,blue_init,dragon,ninja,iceman,lion,wolf;
```

```
void init(){scanf("%d",&initial);
```

```
    red_init=blue_init=initial;
```

```
    scanf("%d%d%d%d%d",&dragon,&ninja,&iceman,&lion,&wolf);
```

```
    red[4]=blue[1]=dragon;
```

```
    red[3]=blue[2]=ninja;
```

```
    red[0]=blue[3]=iceman;
```

```
    red[1]=blue[0]=lion;
```

```
    red[2]=blue[4]=wolf;
```

```
    memset(red_count,0,sizeof(red_count));
```

```
    memset(blue_count,0,sizeof(blue_count));
```

```
}
```

```
void print(){
```

```
    int i1,i2,flag,flag0,flag1,flag2,flaginit1,flaginit2,count1,count2,time1,time2;
```

```
    flag1=flag2=count1=count2=time1=time2=0;
```

```
    for(i1=0,i2=0,flaginit1=1,flaginit2=0;flag1<5||flag2<5;){
```

```
        if(i1==5) i1=0;
```

```
        if(i2==5) i2=0;
```

```
        if(flag1<5) flag=0;
```

```
        if(flag0||flaginit1){
```

```
            if(flaginit1) flaginit1=0;
```

```
            if(red_init>=red[i1]){
```

```

        flag1=0;
        red_init=red_init-red[i1];
        printf("%03d red %s %d born with strength %d,%d %s in red
headquarter\n",time1++,Red[i1],++count1,red[i1],++red_count[i1],Red[i1]);
        flag=1;i1++;
    }
    else {flag1++;i1++;flaginit1=1;}
    if(flag1==5){
        printf("%03d red headquarter stops making warriors\n",time1++);
        flag=1;
    }
}
if(flag2<5) flag0=0;
if(flag||flaginit2){
    if(flaginit2) flaginit2=0;
    if(blue_init>=blue[i2]){
        flag2=0;
        blue_init=blue_init-blue[i2];
        printf("%03d blue %s %d born with strength %d,%d %s in blue
headquarter\n",time2++,Blue[i2],++count2,blue[i2],++blue_count[i2],Blue[i2]);
        flag0=1;i2++;
    }
    else {flag2++;i2++;flaginit2=1;}
    if(flag2==5){
        printf("%03d blue headquarter stops making warriors\n",time2++);
        flag0=1;
    }
}
}
}
}
int main(){int count,t;
    while(scanf("%d",&t)!=EOF){count=0;
        while(t--){init();
            printf("Case:%d\n",++count);
            print();
        }
    }
    return 0;
}

```

测试点分析:

测试点 1 (样例稍作调整, 红方先于蓝方结束, 7 分):

2

20

3 4 6 6 7

40

3 14 5 6 7 (输入)

Case:1

000 red iceman 1 born with strength 6,1 iceman in red headquarter
000 blue lion 1 born with strength 6,1 lion in blue headquarter
001 red lion 2 born with strength 6,1 lion in red headquarter
001 blue dragon 2 born with strength 3,1 dragon in blue headquarter
002 red wolf 3 born with strength 7,1 wolf in red headquarter
002 blue ninja 3 born with strength 4,1 ninja in blue headquarter
003 red headquarter stops making warriors
003 blue iceman 4 born with strength 6,1 iceman in blue headquarter
004 blue headquarter stops making warriors

Case:2

000 red iceman 1 born with strength 5,1 iceman in red headquarter
000 blue lion 1 born with strength 6,1 lion in blue headquarter
001 red lion 2 born with strength 6,1 lion in red headquarter
001 blue dragon 2 born with strength 3,1 dragon in blue headquarter
002 red wolf 3 born with strength 7,1 wolf in red headquarter
002 blue ninja 3 born with strength 14,1 ninja in blue headquarter
003 red ninja 4 born with strength 14,1 ninja in red headquarter
003 blue iceman 4 born with strength 5,1 iceman in blue headquarter
004 red dragon 5 born with strength 3,1 dragon in red headquarter
004 blue wolf 5 born with strength 7,1 wolf in blue headquarter
005 red iceman 6 born with strength 5,2 iceman in red headquarter
005 blue dragon 6 born with strength 3,2 dragon in blue headquarter
006 red headquarter stops making warriors
006 blue headquarter stops making warriors (输出)

测试点 2 (红方蓝方同时结束, 6 分) :

2

100

10 20 30 40 50

400

200 10 30 100 90 (输入)

Case:1

000 red iceman 1 born with strength 30,1 iceman in red headquarter
000 blue lion 1 born with strength 40,1 lion in blue headquarter
001 red lion 2 born with strength 40,1 lion in red headquarter
001 blue dragon 2 born with strength 10,1 dragon in blue headquarter
002 red ninja 3 born with strength 20,1 ninja in red headquarter
002 blue ninja 3 born with strength 20,1 ninja in blue headquarter
003 red dragon 4 born with strength 10,1 dragon in red headquarter
003 blue iceman 4 born with strength 30,1 iceman in blue headquarter
004 red headquarter stops making warriors
004 blue headquarter stops making warriors

Case:2

000 red iceman 1 born with strength 30,1 iceman in red headquarter
000 blue lion 1 born with strength 100,1 lion in blue headquarter
001 red lion 2 born with strength 100,1 lion in red headquarter
001 blue dragon 2 born with strength 200,1 dragon in blue headquarter
002 red wolf 3 born with strength 90,1 wolf in red headquarter
002 blue ninja 3 born with strength 10,1 ninja in blue headquarter
003 red ninja 4 born with strength 10,1 ninja in red headquarter
003 blue iceman 4 born with strength 30,1 iceman in blue headquarter
004 red iceman 5 born with strength 30,2 iceman in red headquarter
004 blue ninja 5 born with strength 10,2 ninja in blue headquarter
005 red lion 6 born with strength 100,2 lion in red headquarter
005 blue iceman 6 born with strength 30,2 iceman in blue headquarter
006 red ninja 7 born with strength 10,2 ninja in red headquarter
006 blue ninja 7 born with strength 10,3 ninja in blue headquarter
007 red iceman 8 born with strength 30,3 iceman in red headquarter
007 blue ninja 8 born with strength 10,4 ninja in blue headquarter
008 red headquarter stops making warriors
008 blue headquarter stops making warriors (输出)

测试点 3 (蓝方先于红方结束, 数据中出现极大值或极小值, 7 分):

2

400

20 3 300 60 98

1000

332 90 47 8989 83 (输入)

Case:1

000 red iceman 1 born with strength 300,1 iceman in red headquarter
000 blue lion 1 born with strength 60,1 lion in blue headquarter
001 red lion 2 born with strength 60,1 lion in red headquarter
001 blue dragon 2 born with strength 20,1 dragon in blue headquarter
002 red ninja 3 born with strength 3,1 ninja in red headquarter
002 blue ninja 3 born with strength 3,1 ninja in blue headquarter
003 red dragon 4 born with strength 20,1 dragon in red headquarter
003 blue iceman 4 born with strength 300,1 iceman in blue headquarter
004 red ninja 5 born with strength 3,2 ninja in red headquarter
004 blue ninja 5 born with strength 3,2 ninja in blue headquarter
005 red ninja 6 born with strength 3,3 ninja in red headquarter
005 blue ninja 6 born with strength 3,3 ninja in blue headquarter
006 red ninja 7 born with strength 3,4 ninja in red headquarter
006 blue ninja 7 born with strength 3,4 ninja in blue headquarter
007 red ninja 8 born with strength 3,5 ninja in red headquarter
007 blue ninja 8 born with strength 3,5 ninja in blue headquarter
008 red ninja 9 born with strength 3,6 ninja in red headquarter
008 blue ninja 9 born with strength 3,6 ninja in blue headquarter

009 red headquarter stops making warriors

009 blue headquarter stops making warriors

Case:2

000 red iceman 1 born with strength 47,1 iceman in red headquarter

000 blue dragon 1 born with strength 332,1 dragon in blue headquarter

001 red wolf 2 born with strength 83,1 wolf in red headquarter

001 blue ninja 2 born with strength 90,1 ninja in blue headquarter

002 red ninja 3 born with strength 90,1 ninja in red headquarter

002 blue iceman 3 born with strength 47,1 iceman in blue headquarter

003 red dragon 4 born with strength 332,1 dragon in red headquarter

003 blue wolf 4 born with strength 83,1 wolf in blue headquarter

004 red iceman 5 born with strength 47,2 iceman in red headquarter

004 blue dragon 5 born with strength 332,2 dragon in blue headquarter

005 red wolf 6 born with strength 83,2 wolf in red headquarter

005 blue ninja 6 born with strength 90,2 ninja in blue headquarter

006 red ninja 7 born with strength 90,2 ninja in red headquarter

006 blue headquarter stops making warriors

007 red iceman 8 born with strength 47,3 iceman in red headquarter

008 red wolf 9 born with strength 83,3 wolf in red headquarter

009 red ninja 10 born with strength 90,3 ninja in red headquarter

010 red headquarter stops making warriors (输出)

测试点 4 (红方蓝方均不制造兵力或仅制造一轮, 2 分) :

3

0

100 200 300 400 300

30

40 50 60 70 80

100

100 100 100 100 200

(输入)

Case:1

000 red headquarter stops making warriors

000 blue headquarter stops making warriors

Case:2

000 red headquarter stops making warriors

000 blue headquarter stops making warriors

Case:3

000 red iceman 1 born with strength 100,1 iceman in red headquarter

000 blue lion 1 born with strength 100,1 lion in blue headquarter

001 red headquarter stops making warriors

001 blue headquarter stops making warriors (输出)

测试点 5 (最大样例, 极限值, 包括所有情况, 3 分) : 略 (输入) 略 (输出)

10. Peak (20 point(s))

#include<cstdio>

```
#include<iostream>
using namespace std;
int num[100001];
int main(){int i,m,n,flag;
    while(cin>>m){
        while(m--){
            flag=1;
            cin>>n;
            for(i=0;i<n;i++){
                cin>>num[i];
            }
            for(i=0;i<n;i++){
                if(num[i]>num[i+1])
                    if(i==0||i==n-1) {flag=0;break;}
                else break;
            }
            for(i=n-2;i>=0;i--){
                if(num[i]<num[i+1]) {flag=0;break;}
            }
            if(flag) printf("Yes\n");
            else printf("No\n");
            for(i=0;i<n;i++)
                num[i]=0;
        }
    }
    return 0;
}
```

测试点分析:

测试点 1 (样例稍作调整, 一般情况, 8 分):

```
9
5
1 5 7 3 2
5
1 2 1 2 1
4
1 2 3 4
4
4 3 2 1
3
1 2 1
3
2 1 2
5
1 2 3 1 2
5
```

0 1 8 7 7

7

9 8 7 6 5 4 3 (输入)

Yes

No

No

No

Yes

No

Yes

Yes

No (输出)

测试点 2 (最小样例, 数组长度很小的情况, 3 分):

6

1

20

2

10 20

2

20 10

3

10 20 10

3

10 10 10

3

20 10 20 (输入)

No

No

No

Yes

No

No (输出)

测试点 3 (数列全部元素基本单调的情况, 3 分):

10

6

1 2 3 4 5 6

5

5 4 3 2 1

6

2 1 3 4 5 6

5

4 5 3 2 1

6

1 2 3 4 6 5

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5

5 4 3 1 2

6

1 2 3 4 5 5

5

5 4 3 2 2

6

1 1 2 3 4 5

5

5 5 4 3 2 (输入)

No

No

No

Yes

Yes

No

Yes

No

No

No (输出)

测试点 4 (中间出现峰值, 数组头尾中间做小改动, 3 分):

7

7

1 2 3 4 3 2 1

8

1 2 3 4 3 2 1 1

8

1 2 3 4 3 2 1 2

7

2 2 3 4 3 2 1

7

3 2 3 4 3 2 1

8

1 2 3 3 4 3 2 1

8

1 2 4 3 4 3 2 1 (输入)

Yes

Yes

Yes

No

No

No

No (输出)

测试点 5 (最大样例, 极限值, 3 分): 略 (输入) 略 (输出)