

旋转排列

人员

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上周作业检查

上周作业链接: <https://www.luogu.com.cn/contest/223428>

2025-0105周日08:30

报名

编辑比赛

题目数7 | 报名人数18

比赛说明

题目列表

排行榜

名次	参赛者	总分	A	B	C	D	E	F	G
#1	燕润石	700 (12.35h)	100 (38.12min)	100 (46.37min)	100 (58.98min)	100 (1.00h)	100 (1.33h)	100 (4.81h)	100 (2.82h)
#2	刘轩铜	700 (1.11d)	100 (27.17min)	100 (49.32min)	100 (1.24h)	100 (1.42h)	100 (7.47h)	100 (6.05h)	100 (9.09h)
#3	郭浩宇	700 (5.88d)	100 (42.52min)	100 (49.08min)	100 (1.54h)	100 (2.79h)	100 (1.93h)	100 (5.44d)	100 (2.92h)
#4	宫正泽	700 (15.16d)	100 (35.73min)	100 (42.43min)	100 (1.37h)	100 (1.90h)	100 (6.53d)	100 (4.22d)	100 (4.22d)
#5	李宜恬	700 (19.88d)	100 (39.35min)	100 (42.95min)	100 (1.59h)	100 (4.43d)	100 (4.47d)	100 (6.38d)	100 (4.48d)
#6	邢致远	700 (24.86d)	100 (51.73min)	100 (1.00h)	100 (1.44h)	100 (6.46d)	100 (6.54d)	100 (6.47d)	100 (6.45d)
#7	王晗廷	600 (6.94h)	100 (39.50min)	100 (42.35min)	100 (1.04h)	100 (1.29h)	100 (1.40h)	100 (1.85h)	
#8	王森	600 (9.84d)	100 (43.00min)	100 (48.10min)	100 (1.47h)	100 (5.28d)	100 (1.65h)		100 (4.37d)
#9	隋梓予	600 (17.67d)	100 (40.02min)	100 (54.03min)	100 (1.59h)	100 (6.46d)	100 (5.58d)		100 (5.50d)
#10	罗艺山	520 (8.35d)	100 (41.40min)	100 (46.77min)	100 (56.42min)	100 (1.76h)	100 (4.08d)		20 (4.10d)
#11	李嘉行	500 (13.26d)	100 (39.93min)	100 (56.00min)	100 (1.51h)	100 (6.59d)	100 (6.55d)		
#12	刘派	410 (6.37d)	100 (40.45min)	100 (1.81h)	100 (51.80min)	10 (1.90h)	100 (6.15d)		
#13	刘梓勋	400 (6.56d)	100 (37.75min)	100 (1.33h)	100 (1.56h)				100 (6.42d)
#14	贾庚瀚	300 (3.03h)	100 (40.92min)	100 (47.13min)	100 (1.56h)				
#15	胡曦辰	300 (3.09h)	100 (40.28min)	100 (47.55min)	100 (1.63h)				
#16	周熙皓	300 (15.31d)	100 (5.09d)	100 (5.09d)	100 (5.09d)				

您正在共享屏幕 结束共享

作业

<https://www.luogu.com.cn/contest/224446> (课上讲了 A B C D 题, D 题大部分同学课上都没写完, 课后作业是 D E 2 道题)

课堂表现

同学们上课听讲都很认真, 老师今天上课跟大家强调了一定不要看题解的事情, 同学们一定要引起重视。

课堂内容

B3688 [语言月赛202212] 旋转排列

```
无限循环 {  
    移动(把最后一个数移动到前面)  
    如果最后一个数==n -> break  
}
```

```
// 用两个数组  
#include <bits/stdc++.h>  
  
using namespace std;  
  
int a[2005], b[2005];  
  
int main()  
{  
    int n;  
    cin >> n;  
    for (int i = 1; i <= n; i++) {  
        cin >> a[i];  
    }  
  
    while (true) {  
        b[1] = a[n];  
        for (int i = 2; i <= n; i++) {  
            b[i] = a[i-1];  
        }  
        for (int i = 1; i <= n; i++) {  
            a[i] = b[i];  
        }  
        for (int i = 1; i <= n; i++) {  
            cout << a[i] << " ";  
        }  
        cout << endl;  
        if (a[n] == n) {  
            break;  
        }  
    }  
    return 0;  
}
```

```
// 用一个数组  
#include <bits/stdc++.h>
```

```
using namespace std;

int a[2005];

int main()
{
    int n;
    cin >> n;
    for (int i = 1; i <= n; i++) {
        cin >> a[i];
    }

    while (true) {
        int t = a[n];
        for (int i = n; i >= 2; i--) {
            a[i] = a[i-1];
        }
        a[1] = t;
        for (int i = 1; i <= n; i++) {
            cout << a[i] << " ";
        }
        cout << endl;
        if (a[n] == n) {
            break;
        }
    }
    return 0;
}
```

B3673 [语言月赛202210] 垃圾分类

```
long long sum = 0;

for (int i = 1; i <= n; i++) {
    if (a[i] >= r[i]) {
        sum += a[i]-r[i];
    }
}

cout << sum*c << endl;
```

P2550 [AHOI2001] 彩票摇奖

```
#include <bits/stdc++.h>

using namespace std;

int cnt[40];
```

```
int f[10];

int main()
{
    int n;
    cin >> n;
    for (int i = 1; i <= 7; i++) {
        int x; cin >> x;
        cnt[x]++;
    }

    for (int i = 1; i <= n; i++) {
        int sum = 0;
        for (int j = 1; j <= 7; j++) {
            int x; cin >> x;
            if (cnt[x] > 0) {
                sum++;
            }
        }
        // sum: 0, 1, 2, 3, 4, 5, 6, 7
        f[sum]++;
    }

    for (int i = 7; i >= 1; i--) {
        cout << f[i] << " ";
    }
    cout << endl;
    return 0;
}
```

P1151 子数整数

```
#include <bits/stdc++.h>

using namespace std;

int main()
{
    int k, cnt = 0;
    cin >> k;
    for (int i = 10000; i <= 30000; i++) {
        int a = i/100;
        int b = (i/10)%1000;
        int c = i%1000;
        if (a%k==0 && b%k==0 && c%k==0) {
            cout << i << endl;
            cnt++;
        }
    }

    if (cnt == 0) {
```

```
        cout << "No";
    }
    return 0;
}
```

B3671 [语言月赛202210] 配餐

```
for (int i = 1; i <= n; i++) {
    cout << a[r[i]] << " ";
}
```

P1317 低洼地

```
#include <bits/stdc++.h>

using namespace std;

int a[10005], b[10005];

int main()
{
    int n;
    cin >> n;
    for (int i = 1; i <= n; i++) {
        cin >> a[i];
    }

    b[1] = a[1];
    int k = 2;
    for (int i = 2; i <= n; i++) {
        if (a[i] != a[i-1]) {
            b[k] = a[i];
            k++;
        }
    }

    // 看 b[1] ~ b[k-1] 有多少个低洼地, 看 b[2] ~ b[k-2]
    int cnt = 0;
    for (int i = 2; i <= k-2; i++) {
        if (b[i-1]>b[i] && b[i+1]>b[i]) {
            cnt++;
        }
    }
    cout << cnt << endl;
    return 0;
}
```