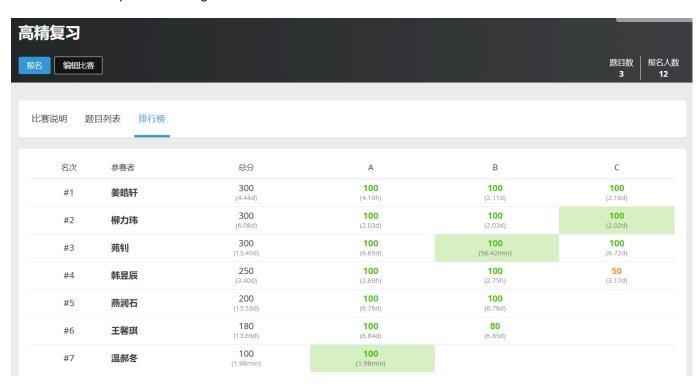# 排座椅

## 人员

初锦阳、李知朔、田心一、李瑞涵、赵牧之、纪博涵、王馨琪、刘子轩、韩昱辰、苑钊、燕润石、温郝冬、姜皓轩、刘梓勋 到课

## 上周作业检查

上周作业链接: https://www.luogu.com.cn/contest/231367

### 高精复习

报名  编辑比赛                                                              题目数 3 | 报名人数 12

比赛说明    题目列表    排行榜

| 名次 | 参赛者 | 总分 | A | B | C |
|------|--------|------|---|---|---|
| #1 | 姜皓轩 | 300 (4.44d) | 100 (4.10h) | 100 (2.11d) | 100 (2.16d) |
| #2 | 柳力玮 | 300 (6.08d) | 100 (2.03d) | 100 (2.03d) | 100 (2.02d) |
| #3 | 苑钊 | 300 (13.40d) | 100 (6.65d) | 100 (56.42min) | 100 (6.72d) |
| #4 | 韩昱辰 | 250 (3.40d) | 100 (2.69h) | 100 (2.75h) | 50 (3.17d) |
| #5 | 燕润石 | 200 (13.53d) | 100 (6.76d) | 100 (6.78d) | |
| #6 | 王馨琪 | 180 (13.69d) | 100 (6.84d) | 80 (6.85d) | |
| #7 | 温郝冬 | 100 (1.98min) | 100 (1.98min) | | |

## 作业

https://www.luogu.com.cn/contest/232480 (课上讲了 A ~ D 题, 课后作业是 E 题)

## 课堂表现

今天的 B 题和 C 题有些难, 同学们课上做的不是很好, 课下要再好好研究研究。

## 课堂内容

### P5015 [NOIP 2018 普及组] 标题统计

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

using namespace std;

bool a[300];
```

```cpp
int main()
{
  string s;
  getline(cin, s);
  int n = s.size(), cnt = 0;
  for (int i = 0; i < n; ++i) {
    if (s[i] != ' ') ++cnt;
  }

  cout << cnt << endl;
  return 0;
}
```

## P1702 突击考试

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

using namespace std;

const int maxn = 1e5 + 5;
int a[maxn], b[maxn];
int n;
struct node {
    int id, len;
} w[10];

bool cmp(node p, node q) {
    if (p.len != q.len) return p.len > q.len;
    return p.id < q.id;
}

int calc(int k) {
    int cnt = 0, maxx = 0;
    for (int i = 1; i <= n; i++) {
        if (a[i]==k || b[i]==k) cnt++;
        else cnt = 0;
        maxx = max(maxx, cnt);
    }
    return maxx;
}

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

    for (int i = 1; i <= 5; i++) {
        w[i].id = i;
        w[i].len = calc(i);
    }
    sort(w+1, w+5+1, cmp);
```

```
        cout << w[1].len << " " << w[1].id << endl;
        return 0;
    }
```

## P1056 [NOIP 2008 普及组] 排座椅

```cpp
#include <bits/stdc++.h>
using namespace std;
const int maxn = 1000 + 5;
struct node {
    int id, cnt;
} a[maxn], b[maxn];
bool cmp1(node p, node q) {
    return p.cnt > q.cnt;
}
bool cmp2(node p, node q) {
    return p.id < q.id;
}
int main()
{
    int n, m, k, l, d; cin >> n >> m >> k >> l >> d;
    for (int i = 1; i <= n; i++) a[i].id = i, a[i].cnt = 0;
    for (int i = 1; i <= m; i++) b[i].id = i, b[i].cnt = 0;
    for (int i = 1; i <= d; i++) {
        int x1, y1, x2, y2; cin >> x1 >> y1 >> x2 >> y2;
        if (x1 == x2) b[min(y1,y2)].cnt++;
        else a[min(x1,x2)].cnt++;
    }
    sort(a+1, a+n+1, cmp1), sort(b+1, b+m+1, cmp1);
    sort(a+1, a+k+1, cmp2), sort(b+1, b+l+1, cmp2);
    for (int i = 1; i <= k; i++) cout << a[i].id << " ";
    cout << endl;
    for (int i = 1; i <= l; i++) cout << b[i].id << " ";
    cout << endl;
    return 0;
}
```

## P8748 [蓝桥杯 2021 省 B] 时间显示

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

using namespace std;

int main()
{
    long long n; cin >> n;
    n /= 1000;
    int hh = (n/3600)%24;
```

```c
    int mm = (n/60)%60;
    int ss = n%60;
    printf("%02d:%02d:%02d\n", hh, mm, ss);
    return 0;
}
```