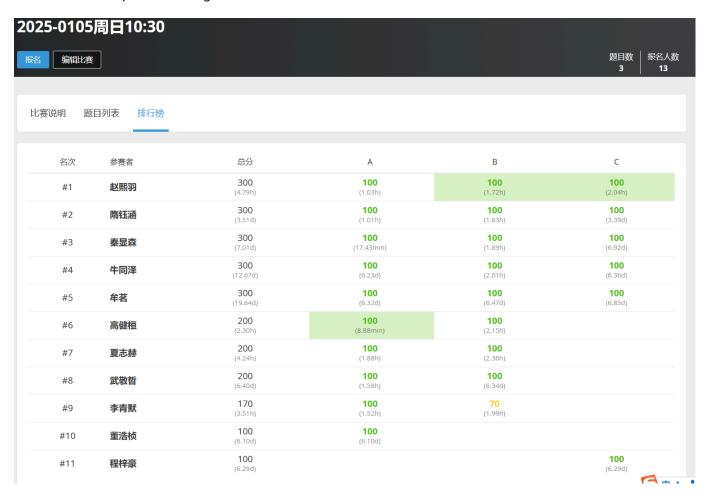
排座椅

人员

夏志赫、武敬哲、程梓豪、牛同泽、隋钰涵、李青默、赵熙羽、秦显森、郭骐嘉、董浩桢、杨瑾硕、夏硕承、陈兆晟 到课

作业检查

上周作业链接: https://www.luogu.com.cn/contest/223457



作业

https://www.luogu.com.cn/contest/224470 (课上讲了 A B C D 4 个题目, D 题大部分同学课上都没写完, 课后作业是 D E 2 个题目)

课堂表现

同学们上课听讲都很认真, 今天的 C D 两道题目比较复杂一些, 同学们课下一定要再好好研究一下这两道题目。

课堂内容

P1146 硬币翻转

```
#include <bits/stdc++.h>
using namespace std;
const int maxn = 100 + 5;
char s[maxn];
int main()
 int n; cin >> n;
  for (int i = 1; i <= n; ++i) s[i] = '0';
 cout << n << endl;</pre>
 for (int i = 1; i <= n; ++i) {
   for (int j = 1; j <= n; ++j) {
      if (j == i) continue;
      if (s[j] == '0') s[j] = '1';
      else s[j] = '0';
    }
   cout << (s+1) << endl;</pre>
  }
 return 0;
}
```

P1181 数列分段 Section I

```
#include <bits/stdc++.h>
using namespace std;
const int maxn = 1e5 + 5;
int w[maxn];
int main()
  int n, m; cin >> n >> m;
  for (int i = 1; i \le n; ++i) cin >> w[i];
  int res = 0, sum = 0;
  for (int i = 1; i <= n; ++i) {
   if (sum + w[i] <= m) sum += w[i];
    else {
      sum = w[i], res++;
    }
  }
 cout << res+1 << endl;</pre>
  return 0;
}
```

P1056 [NOIP2008 普及组] 排座椅

```
#include <bits/stdc++.h>
using namespace std;
const int maxn = 1000 + 5;
struct node {
    int id, cnt;
} row[maxn], col[maxn];
bool cmp(node p, node q) {
    return p.cnt > q.cnt;
}
bool cmp2(node p, node q) {
    return p.id < q.id;
}
int main()
{
    int m, n, K, L, D; cin >> m >> n >> K >> L >> D;
    for (int i = 1; i <= m; ++i) row[i] = {i, \emptyset};
    for (int i = 1; i <= n; ++i) col[i] = {i, 0};
    while (D -- ) {
        int x1, y1, x2, y2; cin >> x1 >> y1 >> x2 >> y2;
        if (x1 == x2) col[min(y1,y2)].cnt++;
        else row[min(x1,x2)].cnt++;
    }
    sort(row+1, row+m+1, cmp);
    sort(col+1, col+n+1, cmp);
    // 前 K 行按 id 从小到大排
    sort(row+1, row+K+1, cmp2);
    sort(col+1, col+L+1, cmp2);
    for (int i = 1; i <= K; ++i) cout << row[i].id << " ";
    cout << endl;</pre>
    for (int i = 1; i <= L; ++i) cout << col[i].id << " ";
    cout << endl;</pre>
    return 0;
}
```

P4552 [Poetize6] IncDec Sequence

```
#include <bits/stdc++.h>
using namespace std;
```

```
typedef long long LL;
const int maxn = 1e5 + 5;
LL a[maxn], s[maxn];
int main()
{
 int n; cin >> n;
 for (int i = 1; i <= n; ++i) cin >> a[i];
 for (int i = 2; i \le n; ++i) s[i] = a[i] - a[i-1];
 LL sum1 = 0, sum2 = 0;
 for (int i = 2; i <= n; ++i) {
  if (s[i] > 0) sum1 += s[i];
   else sum2 -= s[i];
  }
 cout << max(sum1, sum2) << endl;</pre>
 cout << abs(sum1-sum2)+1 << endl;</pre>
 return 0;
}
```