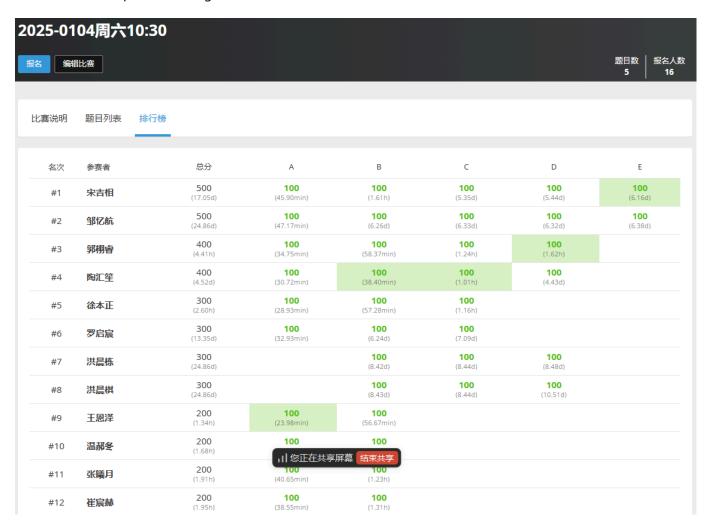
Coin Selection G

人员

郭栩睿、邹忆航、洪晨栋、洪晨棋、陶汇笙 到课, 崔宸赫、罗启宸、王恩泽 线上

作业检查

上周作业链接: https://www.luogu.com.cn/contest/223228



作业

https://www.luogu.com.cn/contest/226027 (课上讲了 A,B,C,D 4 个题, 课后必做作业是 E,F 2 个题, 选做作业是 G 题)

课堂表现

今天课上的题目整体不是很难,同学们应该做到比较轻松的通过所有题目,同学们哪道题目不熟的课下要好好复习。

课堂内容

P1008 [NOIP1998 普及组] 三连击

```
#include <bits/stdc++.h>
using namespace std;
int cnt[10];
int main()
{
    for (int i = 100; i <= 333; i++) {
        int j = 2*i, k = 3*i;
        int a = i, b = j, c = k;
        for (int l = 1; l <= 9; l++) {
            cnt[1] = 0;
        }
        for (int l = 1; l <= 3; l++) {
            cnt[a%10]++, cnt[b%10]++, cnt[c%10]++;
            a /= 10, b /= 10, c /= 10;
        }
        bool flag = true;
        for (int l = 1; l <= 9; l++) {
            if (cnt[1] != 1) {
                flag = false;
            }
        }
        if (flag == true) {
            cout << i << " " << j << " " << k << endl;</pre>
    return 0;
}
```

P1618 三连击 (升级版)

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

using namespace std;

int cnt[15];

int main()
{
   int x, y, z; cin >> x >> y >> z;
   if (x == 0) {
      cout << "No!!!" << endl;
      return 0;
   }

int tot = 0;</pre>
```

```
for (int j = 100; j <= 999; ++j) {
    if (j*y%x != 0) continue;
    if (j*z%x != 0) continue;
    int a = j, b = j*y/x, c = j*z/x;
    if (c > 999) continue;
    for (int i = 1; i <= 9; ++i) cnt[i] = 0;
    while (a) {
      cnt[a%10]++, a /= 10;
    while (b) {
      cnt[b%10]++, b /= 10;
    while (c) {
      cnt[c%10]++, c /= 10;
    bool flag = true;
    for (int i = 1; i <= 9; ++i) {
     if (cnt[i] != 1) flag = false;
    if (flag) {
     cout << j << " " << j*y/x << " " << j*z/x << endl;</pre>
      ++tot;
    }
  }
  if (!tot) cout << "No!!!" << endl;</pre>
 return 0;
}
```

B3688 [语言月赛202212] 旋转排列

```
#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;
}</pre>
```

B3723 [语言月赛202303] Coin Selection G

```
#include <bits/stdc++.h>
using namespace std;
typedef long long LL;
const int maxn = 1000 + 5;
LL w[maxn];
int main()
{
 int n; cin >> n;
  for (int i = 1; i <= n; ++i) cin >> w[i];
  LL sum1 = 0, sum2 = 0;
  for (int i = 1; i <= n; ++i) {
    sort(w+1, w+n+1);
   if (i\%2 == 1) { // sum1
      if (sum1 < w[i]) sum1 += w[i], w[i] = 0;
      else {
        for (int j = n; ; --j) {
          if (w[j] <= sum1) {</pre>
           sum1 += w[j], w[j] = 0;
            break;
          }
        }
      }
    } else { // sum2
      if (sum2 < w[i]) sum2 += w[i], w[i] = 0;
      else {
        for (int j = n; ; --j) {
          if (w[j] \le sum2) {
            sum2 += w[j], w[j] = 0;
            break;
          }
        }
      }
    }
```

```
}
cout << sum1 << " " << sum2 << end1;
return 0;
}</pre>
```