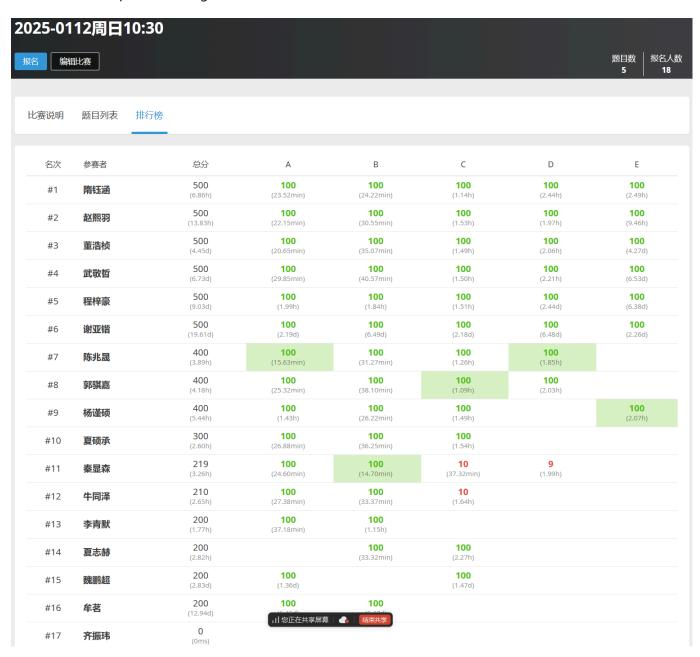
删数问题

人员

武敬哲、程梓豪、隋钰涵、赵熙羽、陈兆晟、高健桓、谢亚锴、董浩桢、秦显森、牛同泽 到课, 夏硕承 线上

作业检查

上周作业链接: https://www.luogu.com.cn/contest/224470



作业

https://www.luogu.com.cn/contest/226342

课堂表现

今天通过 删数问题 这个题, 发现同学们前面的单调栈掌握的并不熟练, 同学们要好好复习一下之前的单调栈和单调队列的内容。

课堂内容

P1008 [NOIP1998 普及组] 三连击

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

using namespace std;

int main()
{
    for (int i = 100; i <= 333; i++) {
        int j = 2*i, k = 3*i;
        string t = to_string(i)+to_string(j)+to_string(k);
        sort(t.begin(), t.end());
        if (t == "123456789") {
            cout << i << " " << j << " " << k << endl;
        }
    }
    return 0;
}</pre>
```

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;</pre>
   return 0;
  }
  int tot = 0;
  for (int j = 100; j <= 999; ++j) {
   if (j*y%x != 0) continue;
    if (j*z%x != ∅) 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;
}
```

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) {
           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] <= sum2) {
            sum2 += w[j], w[j] = 0;
            break;
        }
      }
    }
    cout << sum1 << " " << sum2 << end1;
    return 0;
}</pre>
```

P1106 删数问题

```
#include <bits/stdc++.h>
using namespace std;
int main()
{
    string s;
   int k;
    cin >> s >> k;
    vector<char> vec;
    for (char i : s) {
        while (!vec.empty() && i<vec.back() && k) {</pre>
            vec.pop_back();
            k--;
        }
        vec.push_back(i);
    }
    while (k) {
        vec.pop_back(); k--;
    }
    reverse(vec.begin(), vec.end());
    while ((int)vec.size()>1 && vec.back() == '0') vec.pop_back();
    reverse(vec.begin(), vec.end());
    for (char i : vec) cout << i;</pre>
    return 0;
}
```