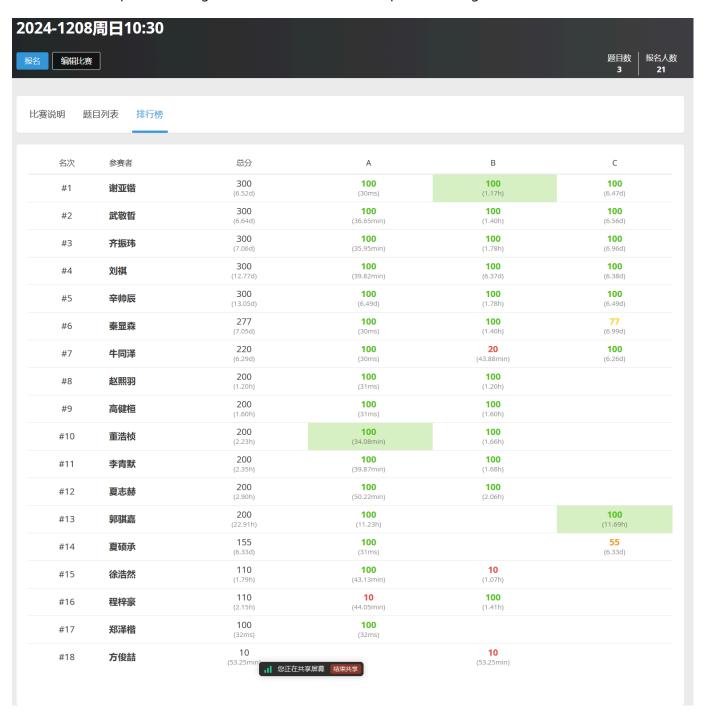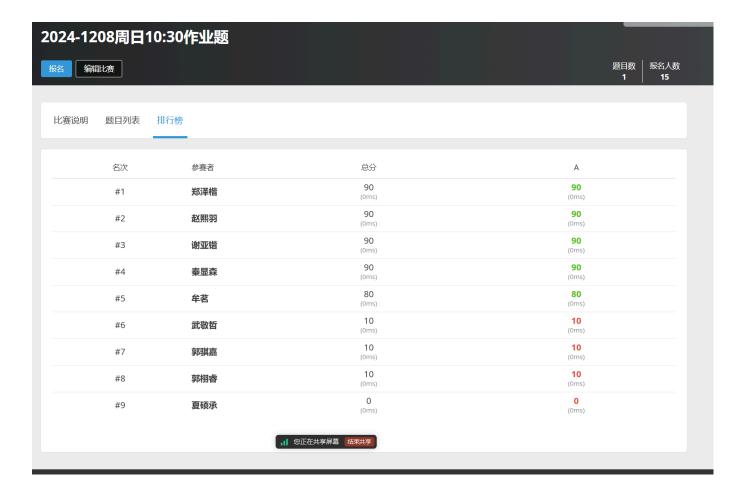# skip

人员

刘祺、夏志赫、武敬哲、秦显森、牟茗、高健桓、李青默、辛帅辰、夏硕承、方俊喆、郑泽楷、程梓豪、赵熙羽、郭骐嘉、牛同泽 到课，齐振玮、谢亚锴 线上

作业检查

上周作业链接: https://www.luogu.com.cn/contest/218902, https://www.luogu.com.cn/contest/218929

2024-1208周日10:30

报名   编辑比赛

题目数 **3** ｜ 报名人数 **21**

比赛说明   题目列表   **排行榜**

名次	参赛者	总分	A	B	C
#1	谢亚锴	300 (6.52d)	100 (30ms)	100 (1.17h)	100 (6.47d)
#2	武敬哲	300 (6.64d)	100 (36.65min)	100 (1.40h)	100 (6.56d)
#3	齐振玮	300 (7.06d)	100 (35.95min)	100 (1.78h)	100 (6.96d)
#4	刘祺	300 (12.77d)	100 (39.82min)	100 (6.37d)	100 (6.38d)
#5	辛帅辰	300 (13.05d)	100 (6.49d)	100 (1.78h)	100 (6.49d)
#6	秦显森	277 (7.05d)	100 (30ms)	100 (1.40h)	77 (6.99d)
#7	牛同泽	220 (6.29d)	100 (30ms)	20 (43.88min)	100 (6.26d)
#8	赵熙羽	200 (1.20h)	100 (31ms)	100 (1.20h)	
#9	高健桓	200 (1.60h)	100 (31ms)	100 (1.60h)	
#10	董浩桢	200 (2.23h)	100 (34.08min)	100 (1.66h)	
#11	李青默	200 (2.35h)	100 (39.87min)	100 (1.68h)	
#12	夏志赫	200 (2.90h)	100 (50.22min)	100 (2.06h)	
#13	郭骐嘉	200 (22.91h)	100 (11.23h)		100 (11.69h)
#14	夏硕承	155 (6.33d)	100 (31ms)		55 (6.33d)
#15	徐浩然	110 (1.79h)	100 (43.13min)	10 (1.07h)	
#16	程梓豪	110 (2.15h)	10 (44.05min)	100 (1.41h)	
#17	郑泽楷	100 (32ms)	100 (32ms)		
#18	方俊喆	10 (53.25min)		10 (53.25min)	

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2024-1208周日10:30作业题

报名　编辑比赛

题目数 **1** ｜ 报名人数 **15**

比赛说明　题目列表　**排行榜**

名次	参赛者	总分	A
#1	郑泽楷	90 (0ms)	**90** (0ms)
#2	赵熙羽	90 (0ms)	**90** (0ms)
#3	谢亚锴	90 (0ms)	**90** (0ms)
#4	秦显森	90 (0ms)	**90** (0ms)
#5	牟茗	80 (0ms)	**80** (0ms)
#6	武敬哲	10 (0ms)	**10** (0ms)
#7	郭骐嘉	10 (0ms)	**10** (0ms)
#8	郭栩睿	10 (0ms)	**10** (0ms)
#9	夏硕承	0 (0ms)	**0** (0ms)

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作业

https://www.luogu.com.cn/contest/220053

课堂表现

今天的第一题 skip 这个题相对比较复杂, 大部分同学虽然课上过了, 但是课下也一定要好好复习。

课堂内容

U512586 skip

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

using namespace std;

const int maxn = 200 + 5;
struct node {
    int value, id;
} w[maxn];
bool cmp(node p, node q) {
    return p.value > q.value;
}
int f[maxn];

int main()
{
```

```cpp
    int n, m;
    cin >> n >> m;
    for (int i = 1; i <= n; i++) {
        cin >> w[i].value;
        w[i].id = i;
    }

    if (n<3) {
        for (int i = 1; i <= n; i++) cout << 0 << " ";
        cout << endl;
        return 0;
    }

    sort(w+1, w+n+1, cmp);
    if (n >= 8) {
        f[w[1].id] = 9;
        for (int i = 2; i <= n; i++) {
            if (w[i].value == w[i-1].value) {
                f[w[i].id] = f[w[i-1].id];
            }
            else {
                f[w[i].id] = max(9-i, 0);
            }
        }
    } else {
        f[w[1].id] = n;
        for (int i = 2; i <= n; i++) {
            if (w[i].value == w[i-1].value) {
                f[w[i].id] = f[w[i-1].id];
            } else {
                f[w[i].id] = n-i;
            }
        }
    }

    for (int i = 1; i <= n; i++) {
        if (w[i].value > m) {
            f[w[i].id] *= 2;
        }
    }

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

U512585 b

1. n k

    -> k >= n -> 一定是 n 秒

2. 少 n-k 次

3. a1, a2, a3, ..., an

    一共有 n-1 个差

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

using namespace std;

const int maxn = 1e5 + 5;
int w[maxn], a[maxn];

int main()
{
  int n, k; cin >> n >> k;
  for (int i = 1; i <= n; ++i) cin >> w[i];

  sort(w+1, w+n+1);

  for (int i = 2; i <= n; ++i) a[i-1] = (w[i] - w[i-1] - 1);
  sort(a+1, a+n);

  int res = n;
  for (int i = 1; i <= n-k; ++i) {
    res += a[i];
  }

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

U515051 出游

n 人

$\begin{cases} 1. \ a\,\text{元} \ 1\,\text{张} \\ 2. \ b\,\text{元} \ m\,\text{张} \end{cases}$

1. $a \cdot m <= b \quad \longrightarrow \quad a \cdot n$

2. $a \cdot m > b \quad \longrightarrow \quad \dfrac{n}{m}\text{份} \to \dfrac{n}{m} \cdot b$

$n\%m \longrightarrow \min \begin{cases} n\%m \cdot a \\ b \end{cases}$