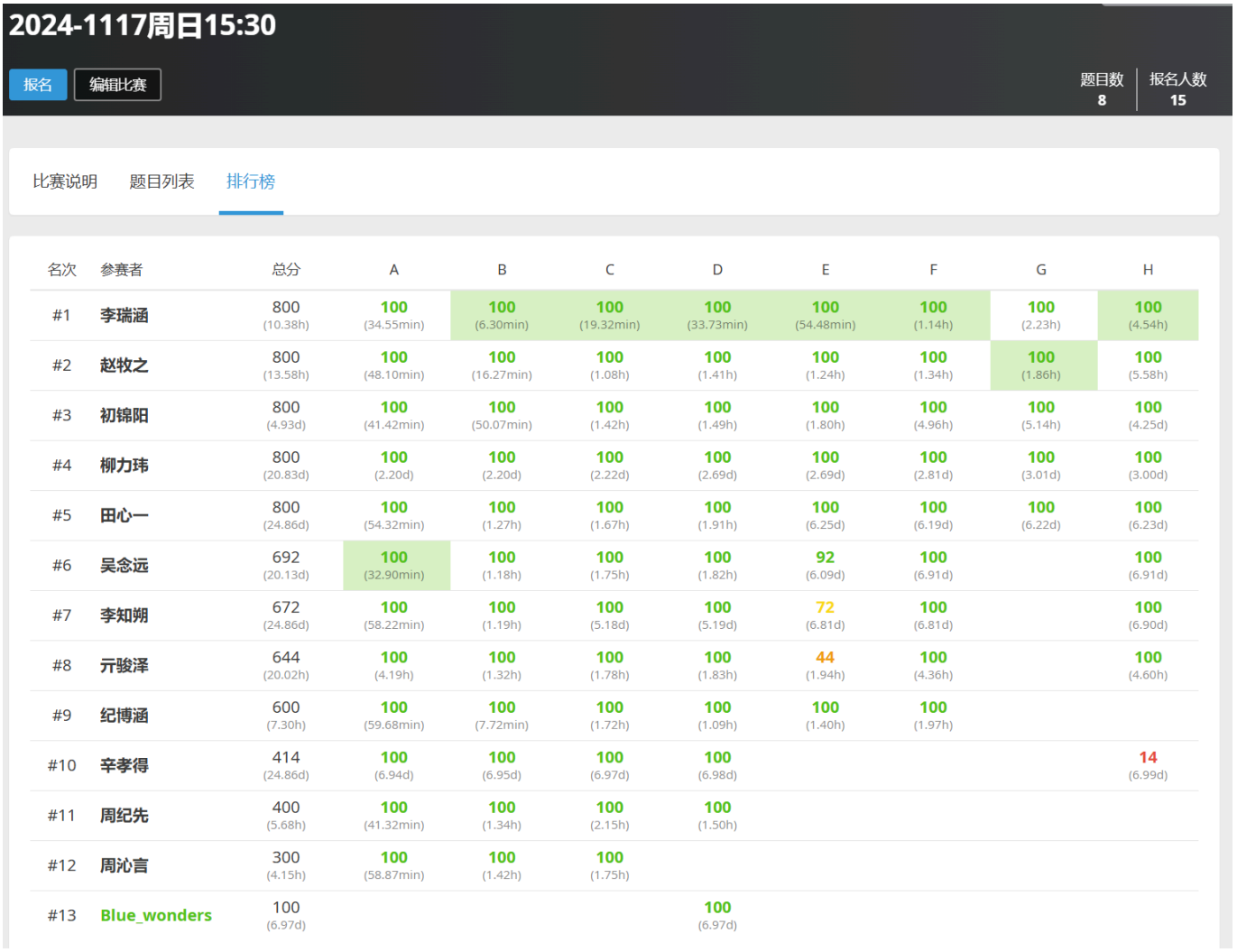
string初学

人员

初锦阳、田心一、吴念远、纪博涵、董岱诚、赵牧之、周沁言、亓骏泽、李知朔、李瑞涵、辛孝得、柳力玮、刘子轩、王馨琪 到课

上周作业检查

上周作业链接: https://www.luogu.com.cn/contest/214308



2024-1117周日15:30

报名 编辑比赛

题目数 8 | 报名人数 15

比赛说明 题目列表 排行榜

名次	参赛者	总分	A	B	C	D	E	F	G	H
#1	李瑞涵	800 (10.38h)	100 (34.55min)	100 (6.30min)	100 (19.32min)	100 (33.73min)	100 (54.48min)	100 (1.14h)	100 (2.23h)	100 (4.54h)
#2	赵牧之	800 (13.58h)	100 (48.10min)	100 (16.27min)	100 (1.08h)	100 (1.41h)	100 (1.24h)	100 (1.34h)	100 (1.86h)	100 (5.58h)
#3	初锦阳	800 (4.93d)	100 (41.42min)	100 (50.07min)	100 (1.42h)	100 (1.49h)	100 (1.80h)	100 (4.96h)	100 (5.14h)	100 (4.25d)
#4	柳力玮	800 (20.83d)	100 (2.20d)	100 (2.20d)	100 (2.22d)	100 (2.69d)	100 (2.69d)	100 (2.81d)	100 (3.01d)	100 (3.00d)
#5	田心一	800 (24.86d)	100 (54.32min)	100 (1.27h)	100 (1.67h)	100 (1.91h)	100 (6.25d)	100 (6.19d)	100 (6.22d)	100 (6.23d)
#6	吴念远	692 (20.13d)	100 (32.90min)	100 (1.18h)	100 (1.75h)	100 (1.82h)	92 (6.09d)	100 (6.91d)		100 (6.91d)
#7	李知朔	672 (24.86d)	100 (58.22min)	100 (1.19h)	100 (5.18d)	100 (5.19d)	72 (6.81d)	100 (6.81d)		100 (6.90d)
#8	亓骏泽	644 (20.02h)	100 (4.19h)	100 (1.32h)	100 (1.78h)	100 (1.83h)	44 (1.94h)	100 (4.36h)		100 (4.60h)
#9	纪博涵	600 (7.30h)	100 (59.68min)	100 (7.72min)	100 (1.72h)	100 (1.09h)	100 (1.40h)	100 (1.97h)		
#10	辛孝得	414 (24.86d)	100 (6.94d)	100 (6.95d)	100 (6.97d)	100 (6.98d)				14 (6.99d)
#11	周纪先	400 (5.68h)	100 (41.32min)	100 (1.34h)	100 (2.15h)	100 (1.50h)				
#12	周沁言	300 (4.15h)	100 (58.87min)	100 (1.42h)	100 (1.75h)					
#13	Blue_wonders	100 (6.97d)				100 (6.97d)				

作业

https://www.luogu.com.cn/contest/215886

课堂表现

今天的 E、F 2 道题同学们做起来普遍吃力一些，回家要再努力做一做这 2 道题。

课堂内容

U504508 去掉x个最高最低分后的平均分

```
#include<iostream>
#include<algorithm>
#include<cstdio>
using namespace std;
int a[10005];
int main(){
    int n,x;
    cin>>n>>x;
    for(int i=1;i<=n;i++){
        cin>>a[i];
    }
    sort(a+1,a+n+1);
    int sum = 0, cnt = 0;
    for(int i=x+1;i<=n-x;i++){
        cnt++;
        sum+=a[i];
    }
    printf("%.1f",1.0*sum/cnt);
    return 0;
}
```

U504513 下载电影

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

using namespace std;

const int maxn = 100 + 5;
int w[maxn];

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

  int res = 0;
  for (int i = 1; i <= n-m+1; ++i) {
    int sum = 0;
    for (int j = i; j <= i+m-1; ++j) sum += w[j];
    res = max(res, sum);
  }

  printf("%.2lf", 1.0*res/m);
  return 0;
}
```

U504482 判断字符串是否相等

```
#include<iostream>
#include<algorithm>
#include<cstring>
using namespace std;
int main()
{
    string a,b;
    cin >> a >> b;
    if (a>b)
    {
        cout << ">";
    }
    if (a<b)
    {
        cout << "<";
    }
    if (a == b)
    {
        cout << "=";
    }
    return 0;
}
```

U498469 判断字符串是否为回文

```
#include<iostream>
#include<algorithm>
#include<cstring>
using namespace std;
int main()
{
    string a,b;
    cin >> a;
    b = a;
    reverse(b.begin(),b.end());
    if (a == b)
    {
        cout << "yes";
    }
    else
    {
        cout << "no";
    }
    return 0;
}
```

U499286 忽略大小写的字符串比较

```cpp
#include <iostream>
#include <algorithm>

using namespace std;

int main()
{
    string a, b;
    getline(cin, a);
    getline(cin, b);
    int n = a.size(), m = b.size();
    for (int i = 0; i < n; i++) {
        if (a[i]>='A' && a[i]<='Z') {
            a[i] = a[i]-'A'+'a';
        }
    }

    for (int i = 0; i < m; i++) {
        if (b[i]>='A' && b[i]<='Z') {
            b[i] = b[i]-'A'+'a';
        }
    }

    if (a > b) {
        cout << ">";
    } else if (a < b) {
        cout << "<";
    } else {
        cout << "=";
    }
    return 0;
}
```

U499287 字符串判等

```cpp
#include <iostream>
#include <algorithm>

using namespace std;

int main()
{
    string a, b;
    getline(cin, a);
    getline(cin, b);
    int n = a.size(), m = b.size();
    for (int i = 0; i < n; i++) {
        if (a[i]>='A' && a[i]<='Z') {
            a[i] = a[i]-'A'+'a';
        }
```

```
    }
    for (int i = 0; i < m; i++) {
        if (b[i]>='A' && b[i]<='Z') {
            b[i] = b[i]-'A'+'a';
        }
    }

    string c, d;
    for (int i = 0; i < n; i++) {
        if (a[i] != ' ') {
            c += a[i];
        }
    }
    for (int i = 0; i < m; i++) {
        if (b[i] != ' ') {
            d += b[i];
        }
    }

    if (c == d) {
        cout << "YES";
    } else {
        cout << "NO";
    }
    return 0;
}
```

U504492 排队

```
#include<iostream>
#include<algorithm>
using namespace std;
typedef long long ll;
const int maxn=1e5+5;
int a[maxn];
int main(){
    int n;
    cin>>n;
    for(int i=1;i<=n;i++)
    {
        cin>>a[i];
    }
    sort(a+1,a+n+1);
    for(int i=1;i<=n;i+=2)
    {
        cout<<a[i]<<" ";
    }
    for(int i=n-1;i>=1;i-=2)
    {
        cout<<a[i]<<" ";
    }
```

```
    return 0;
}
```

U506943 回文数

```
1. 求一个数 n 的反转数 x

2. 判断一个数 n 是不是回文数
    -> 如果 n == n的反转数

int cnt = 0;
while (true) {
    求 n 的反转数 x

    int x = 0, t = n;
    while (t != 0) {
        x = ...
        t /= 10;
    }

    if (n == x) {
        break;
    } else {
        n += x;
        cnt++;
    }
}
cout << endl;
```