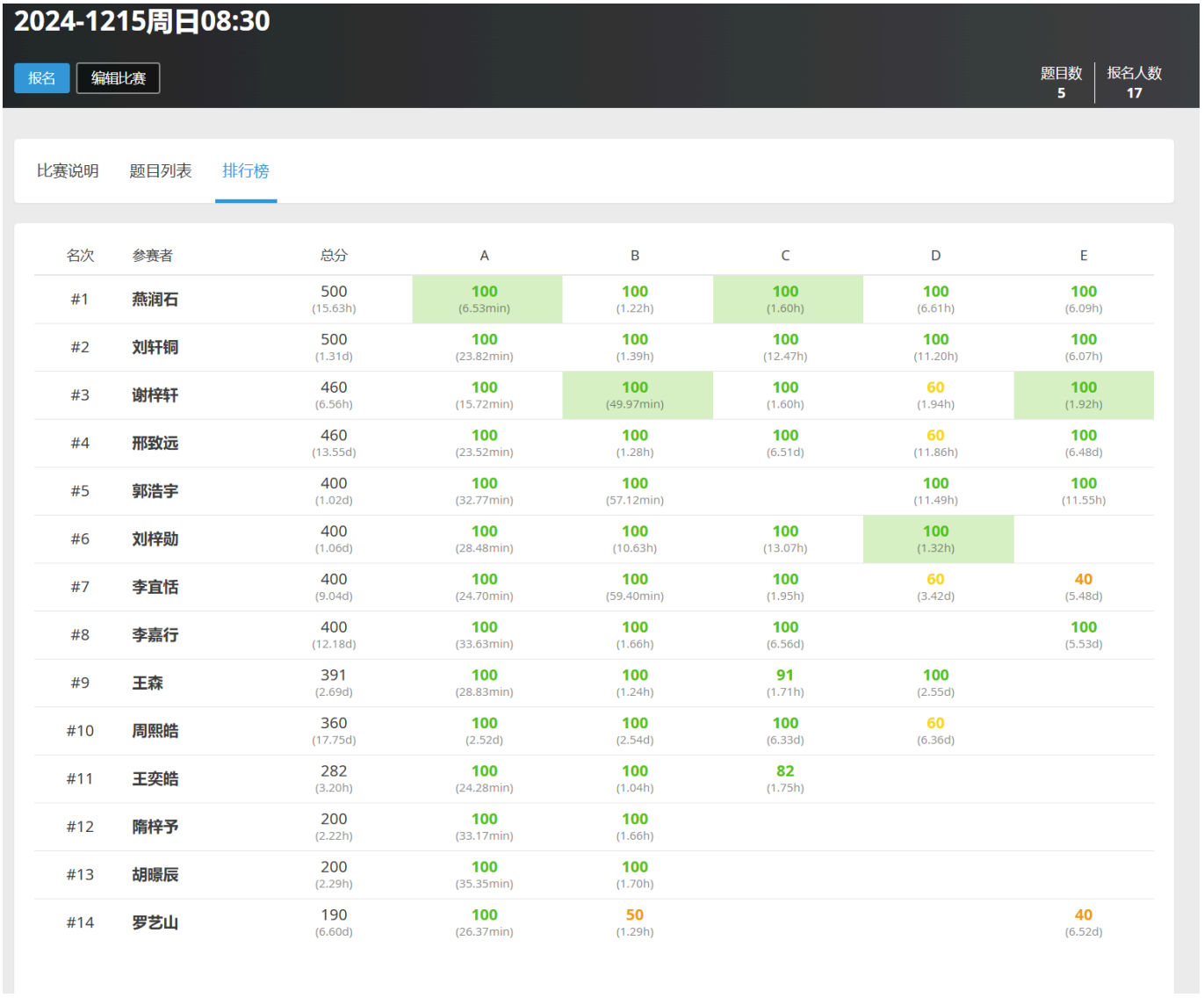
根号 n 判质数

人员

刘轩铜、李宜恬、隋梓予、郭浩宇、燕润石、王森、刘梓勋、罗艺山、邢志远、李嘉行、王晗廷、贾庚澔、王奕皓 到课

上周作业检查

上周作业链接: https://www.luogu.com.cn/contest/220018 (第 4 题拿 60 分即可)



2024-1215周日08:30

报名 编辑比赛

题目数 5 | 报名人数 17

比赛说明 题目列表 排行榜

名次	参赛者	总分	A	B	C	D	E
#1	燕润石	500 (15.63h)	100 (6.53min)	100 (1.22h)	100 (1.60h)	100 (6.61h)	100 (6.09h)
#2	刘轩铜	500 (1.31d)	100 (23.82min)	100 (1.39h)	100 (12.47h)	100 (11.20h)	100 (6.07h)
#3	谢梓轩	460 (6.56h)	100 (15.72min)	100 (49.97min)	100 (1.60h)	60 (1.94h)	100 (1.92h)
#4	邢致远	460 (13.55d)	100 (23.52min)	100 (1.28h)	100 (6.51d)	60 (11.86h)	100 (6.48d)
#5	郭浩宇	400 (1.02d)	100 (32.77min)	100 (57.12min)		100 (11.49h)	100 (11.55h)
#6	刘梓勋	400 (1.06d)	100 (28.48min)	100 (10.63h)	100 (13.07h)	100 (1.32h)	
#7	李宜恬	400 (9.04d)	100 (24.70min)	100 (59.40min)	100 (1.95h)	60 (3.42d)	40 (5.48d)
#8	李嘉行	400 (12.18d)	100 (33.63min)	100 (1.66h)	100 (6.56d)		100 (5.53d)
#9	王森	391 (2.69d)	100 (28.83min)	100 (1.24h)	91 (1.71h)	100 (2.55d)	
#10	周熙皓	360 (17.75d)	100 (2.52d)	100 (2.54d)	100 (6.33d)	60 (6.36d)	
#11	王奕皓	282 (3.20h)	100 (24.28min)	100 (1.04h)	82 (1.75h)		
#12	隋梓予	200 (2.22h)	100 (33.17min)	100 (1.66h)			
#13	胡曒辰	200 (2.29h)	100 (35.35min)	100 (1.70h)			
#14	罗艺山	190 (6.60d)	100 (26.37min)	50 (1.29h)			40 (6.52d)

作业

https://www.luogu.com.cn/contest/221258

课堂表现

今天讲了上周的上上周的作业, 一口气讲的题目比较多, 同学们要课下多花一些功夫把之前没通过的题目补完。

课堂内容

B2096 直方图

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

using namespace std;

const int maxn = 1e5 + 5;
int f[maxn];

int main()
{
  int n; cin >> n;
  int maxx = 0;
  for (int i = 1; i <= n; ++i) {
    int x;
    cin >> x;
    f[x]++;
    maxx = max(maxx, x);
  }

  for (int i = 0; i <= maxx; ++i) cout << f[i] << endl;
  return 0;
}
```

B2097 最长平台

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

using namespace std;

int a[105];

int main()
{
    int n;
    cin >> n;
    for (int i = 1; i <= n; i++) {
        cin >> a[i];
    }

    int cnt = 1;
    int maxx = 1;

    for (int i = 2; i <= n; i++) {
        if (a[i] == a[i-1]) {
            cnt++;
        } else {
            cnt = 1;
        }
        maxx = max(maxx, cnt);
```

```
    }

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

B3886 [语言月赛 202311] 数学选择题

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

using namespace std;

int main()
{
   int a, b, c, d, M;
   cin >> a >> b >> c >> d >> M;
   int fen = c*5;
   if (fen > M) {
        fen += d*20;
   }
   fen -= (b-d)*20;
   if (fen < 0) {
        fen = 0;
   }
   cout << fen;
   return 0;
}
```

B2098 整数去重

```
#include<bits/stdc++.h>
using namespace std;
int n,a[20005],cnt[20005],t;
int main()
{
    cin>>n;
    for(int i=1;i<=n;i++)
    {
        cin>>a[i];
    }
    for(int i=1;i<=n;i++)
    {
        cnt[a[i]]++;
        if(cnt[a[i]]==1)
        {
            cout<<a[i]<<" ";
        }
```

```
    }
    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;
}
```

B2128 素数个数

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

using namespace std;

int main()
{
  int n; cin >> n;
  int res = 0;
  for (int i = 2; i <= n; i++) {
    int cnt = 0;
    for (int j = 2; j*j <= i; ++j) {
      if (i%j == 0) cnt++;
    }
    if (cnt == 0) ++res;
  }
```

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

B3842 [GESP202306 三级] 春游

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

using namespace std;

const int maxn = 1000 + 5;
int a[maxn];

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

  int cnt = 0;
  for (int i = 0; i < n; ++i) {
    if (a[i] > 0) cnt++;
  }

  if (cnt == n) {
    cout << n << endl;
  } else {
    for (int i = 0; i < n; ++i) {
      if (a[i] == 0) {
        cout << i << " ";
      }
    }
    cout << endl;
  }

  return 0;
}
```

P5715 【深基3.例8】三位数排序

```
#include<bits/stdc++.h>
using namespace std;
int main()
{
    int a[4];
    for(int i=1;i<=3;i++)
    {
```

```
        cin>>a[i];
    }
    sort(a+1,a+4);
    for(int i=1;i<=3;i++)
    {
        cout<<a[i]<<" ";
    }
    return 0;
}
```

P5717 【深基3.习8】三角形分类

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

using namespace std;

int main() {
  int a, b, c;
  cin >> a >> b >> c;
  if (a > b) swap(a, b);
  if (a > c) swap(a, c);
  if (b > c) swap(b, c);

  if (a+b <= c) cout << "Not triangle" << endl;
  else {
    if (a*a + b*b == c*c) cout << "Right triangle" << endl;
    if (a*a + b*b > c*c) cout << "Acute triangle" << endl;
    if (a*a + b*b < c*c) cout << "Obtuse triangle" << endl;
    if (a==b || b==c) cout << "Isosceles triangle" << endl;
    if (a==c) cout << "Equilateral triangle" << endl;
  }
  return 0;
}
```