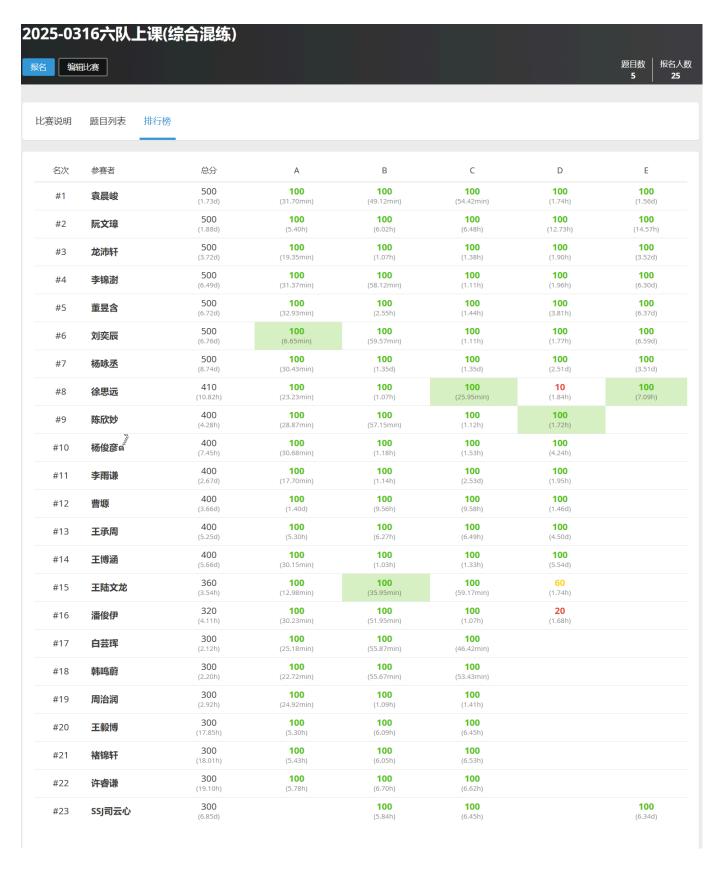
综合混练

人员

褚锦轩、许睿谦、王毅博、阮文璋、王承周、司云心 到课

上周作业检查

https://www.luogu.com.cn/contest/236356



作业

https://www.luogu.com.cn/contest/237831 (课上讲了 A~E 题, 课后作业是 F G H 题)

课堂表现

今天的 C 题, 许多同学都是做了很多次才过, 这个题有好几个容易错的地方, 同学们课下要再多复习一下。

课堂内容

P1318 积水面积

```
#include <bits/stdc++.h>
using namespace std;
const int maxn = 5000 + 5;
int w[maxn];
int main()
{
    int n; cin >> n;
    for (int i = 1; i <= n; ++i) cin >> w[i];
    int res = 0;
    for (int i = 2; i <= n-1; ++i) {
        int lmaxx = 0, rmaxx = 0;
        for (int j = 1; j <= i-1; ++j) lmaxx = max(lmaxx, w[j]);
        for (int j = i+1; j \le n; ++j) rmaxx = max(rmaxx, w[j]);
        res += max(min(lmaxx,rmaxx)-w[i], ∅);
    cout << res << endl;</pre>
    return 0;
}
```

U545755 积水面积2

```
#include <bits/stdc++.h>
using namespace std;
typedef long long LL;
const int maxn = 1e6 + 5;
int w[maxn];
int p_maxx[maxn], s_maxx[maxn];
int main()
{
    int n; cin >> n;
    for (int i = 1; i <= n; ++i) cin >> w[i];
    for (int i = 1; i <= n; ++i) p_{maxx}[i] = max(p_{maxx}[i-1], w[i]);
    for (int i = n; i \ge 1; --i) s_maxx[i] = max(s_maxx[i+1], w[i]);
    LL res = 0;
    for (int i = 2; i <= n-1; ++i) {
        int lmaxx = p_maxx[i-1], rmaxx = s_maxx[i+1];
        res += max(min(lmaxx,rmaxx)-w[i], ∅);
    cout << res << endl;</pre>
```

```
return 0;
}
```

U545760 找两数之差的最小值

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

using namespace std;

const int maxn = 1e6 + 5;
int w[maxn], p_minn[maxn];

int main()
{
    int n; cin >> n;
    for (int i = 1; i <= n; ++i) cin >> w[i];
    p_minn[1] = w[1];
    for (int i = 2; i <= n; ++i) p_minn[i] = min(p_minn[i-1], w[i]);

    int res = -2e9-10;
    for (int i = 2; i <= n; ++i) res = max(res, w[i]-p_minn[i-1]);
    cout << res << endl;
    return 0;
}</pre>
```

P1115 最大子段和

```
#include <bits/stdc++.h>
using namespace std;
const int maxn = 2e5 + 5;
int w[maxn], p[maxn];
int p_min[maxn];
int main()
{
  int n; cin >> n;
  int res = -1000;
  for (int i = 1; i <= n; ++i) {
   cin >> w[i], p[i] = p[i-1] + w[i];
    p_{\min}[i] = \min(p_{\min}[i-1], p[i]);
    res = max(res, p[i] - p_min[i-1]);
  cout << res << endl;</pre>
  return 0;
}
```

P5461 赦免战俘

```
#include <bits/stdc++.h>
using namespace std;
const int maxn = 1024 + 5;
int a[maxn][maxn];
void dfs(int x1, int y1, int x2, int y2, int n) {
    if (n == 0) { a[x1][y1] = 1; return; }
    int x_{-} = (x_{1}+x_{2})/2, y_{-} = (y_{1}+y_{2})/2;
    dfs(x1,y_+1,x_-,y2,n_-1);
    dfs(x_{+1},y_{1},x_{2},y_{n-1});
    dfs(x_+1,y_+1,x_2,y_2,n_-1);
}
int main()
{
    int n; cin >> n;
    dfs(1,1,1<<n,1<<n,n);
    for (int i = 1; i <= (1 << n); i++) {
         for (int j = 1; j \leftarrow (1 << n); j++) cout << a[i][j] << " ";
        cout << endl;</pre>
    }
  return 0;
}
```