

小小的埴轮兵团

人员

刘祺、牛同泽、赵熙羽、齐振玮、夏志赫、武敬哲、秦显森、徐浩然、谢亚锴、高健桓、郑泽楷、李青默 到课，辛帅辰、夏硕承 线上

作业检查

上周作业链接: <https://www.luogu.com.cn/contest/214205>

2024-11-17周日10:30

报名

编辑比赛

题目数

6

报名人数

20

比赛说明

题目列表

排行榜

名次	参赛者	总分	A	B	C	D	E	F
#1	赵熙羽	530 (6.65d)	100 (16.85min)	100 (23.58min)	100 (46.82min)	100 (1.35h)	100 (2.09h)	30 (6.44d)
#2	谢亚锴	530 (24.86d)	100 (16.32min)	100 (27.20min)	100 (6.27d)	100 (6.29d)	100 (6.45d)	30 (6.48d)
#3	董浩桢	500 (13.38h)	100 (18.50min)	100 (29.80min)	100 (45.62min)	100 (1.71h)	100 (10.10h)	
#4	秦显森	500 (7.20d)	100 (11.98min)	100 (17.60min)	100 (36.02min)	100 (7.06d)	100 (2.16h)	
#5	武敬哲	428 (15.98d)	100 (35.42min)	100 (54.07min)	100 (5.29d)	28 (5.32d)	100 (5.31d)	
#6	齐振玮	428 (20.22d)	100 (36.05min)	100 (49.48min)	100 (6.31d)	28 (6.91d)	100 (6.94d)	
#7	高健桓	408 (2.10d)	100 (29.97min)	100 (37.87min)	8 (9.11h)	100 (1.31d)	100 (8.75h)	
#8	刘祺	400 (11.32h)	100 (18.75min)	100 (42.65min)	100 (46.37min)		100 (9.53h)	
#9	辛帅辰	400 (20.97d)	100 (34.12min)	100 (6.98d)	100 (6.99d)		100 (6.98d)	
#10	user1226023	328 (2.33h)	100 (20.22min)	100 (26.55min)	100 (40.63min)	28 (52.30min)		
#11	user1226022	300 (3.37h)	100 (36.15min)	100 (48.95min)	100 (1.95h)			
#12	夏志赫	300 (6.56d)	100 (29.57min)	100 (59.82min)			100 (6.50d)	
#13	徐浩然	200 (1.55h)	100 (33.53min)	100 (59.18min)				
#14	Earth_Threebody	200 (1.76h)	100 (22.72min)	100 (1.38h)				
#15	柳力玮	200 (20.46h)	100 (10.14h)	100 (10.31h)				
#16	强笑萌	100 (41.92min)	100 (41.92min)					

您正在共享屏幕 结束共享

作业

<https://www.luogu.com.cn/contest/215772>

课堂表现

同学们课下还是要努力尝试作业题，有些题目可能拿满分比较难，但是努力尝试了肯定是可以拿到暴力分的。

课堂内容

U497831 百钱买百鸡 2

```
#include <iostream>
using namespace std;
int main() {
    int n,a,b,c;
    bool flag=false;
    cin>>n>>a>>b>>c;
    for(int i=1;i<=n;i++){
        for(int j=n;j>=1;j--){
            for(int k=c;k<=n*c;k+=c){
                if(i+j+k==n&&i*a+j*b+k/c==n){
                    flag=true;
                    cout<<i<<" "<<j<<" "<<k<<endl;
                }
            }
        }
    }
    if(flag==false){
        cout<<"-1";
    }
    return 0;
}
```

U497832 百钱买百鸡 3

```
#include <iostream>
using namespace std;
int main() {
    int n,a,b,c;
    bool flag=false;
    cin>>n>>a>>b>>c;
    for(int i=1;i<=n;i++){
        for(int j=n;j>=1;j--){
            int k=n-i-j;
            if(k%c==0&&i*a+j*b+k/c==n&&k>0){
                flag=true;
                cout<<i<<" "<<j<<" "<<k<<endl;
            }
        }
    }
    if(flag==false){
        cout<<"-1";
    }
}
```

```
    return 0;
}
```

U506943 回文数

```
int get_rev(int n) { // 求 n 的反转数
    x = 0
    边对 n 进行拆数 t -> t 放到 x 的后面 (x = x*10 + t)
    return x;
}

while (true) {
    int x = get_rev(n);
    if (n == x) {
        break;
    } else {
        n += x;
        cnt++;
    }
}
```

U504498 字符串解压

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

using namespace std;

const int maxn = 100 + 5;
char s[maxn];

int main()
{
    cin >> (s+1);
    int n = strlen(s+1);

    int cnt = 0;
    for (int i = 1; i <= n; ++i) {
        if (isdigit(s[i])) cnt = cnt*10 + s[i]-'0';
        else {
            if (cnt == 0) cnt = 1;
            for (int j = 1; j <= cnt; ++j) cout << s[i];
            cnt = 0;
        }
    }
    return 0;
}
```

U504494 并集与交集

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

using namespace std;

int main()
{
    int n, m; cin >> n >> m;
    set<int> s, s2, s3;
    while (n -- ) {
        int x; cin >> x; s.insert(x);
        s2.insert(x);
    }

    while (m -- ) {
        int x; cin >> x; s.insert(x);
        if (s2.count(x)) s3.insert(x);
    }

    for (int i : s) cout << i << " "; cout << endl;
    for (int i : s3) cout << i << " "; cout << endl;
    return 0;
}
```

P7505 「Wdsr-2.5」小小的填轮兵团

不去真正的改变每一个数,而是去维护一个统一的改变量

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

using namespace std;

typedef long long LL;
const int maxn = 3e5 + 5;
int w[maxn];

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

    deque<int> dq;
    for (int i = 1; i <= n; i++) {
        if (w[i]>=-k && w[i]<=k) dq.push_back(w[i]);
    }

    LL sum = 0;
    while (m -- ) {
```

```
int op; cin >> op;
if (op == 1) {
    int x; cin >> x; sum += x;
    while (!dq.empty() && dq.back()+sum > k) dq.pop_back();
} else if (op == 2) {
    int x; cin >> x; sum -= x;
    while (!dq.empty() && dq.front()+sum < -k) dq.pop_front();
} else {
    cout << dq.size() << endl;
}
}
return 0;
}
```