

重复字符串

人员

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

作业检查

上周作业链接: <https://www.luogu.com.cn/contest/217571>

2024-1201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 | 刘祺 | 600 (7.33d) | 100 (27.72min) | 100 (7.76h) | 100 (1.71h) | 100 (7.86h) | 100 (9.64h) | 100 (6.18d) |
| #2 | 谢亚锴 | 580 (19.79d) | 100 (7.08min) | 100 (58.62min) | 100 (1.73h) | 100 (6.29d) | 100 (6.39d) | 80 (7.00d) |
| #3 | 秦显森 | 540 (14.42d) | 100 (25.25min) | 60 (38.02min) | 100 (1.81h) | 100 (1.33d) | 100 (6.48d) | 80 (6.49d) |
| #4 | 武敬哲 | 500 (18.64d) | 100 (28.08min) | 100 (6.19d) | 100 (1.78h) | 100 (6.17d) | 100 (6.18d) | |
| #5 | 徐浩然 | 500 (18.83d) | 100 (34.40min) | 100 (6.23d) | 100 (1.78h) | 100 (6.24d) | 100 (6.26d) | |
| #6 | 夏硕承 | 500 (19.07d) | 100 (16.33min) | 100 (6.04d) | 100 (1.73h) | 100 (6.03d) | 100 (6.92d) | |
| #7 | 辛帅辰 | 500 (19.61d) | 100 (7.00min) | | 100 (1.88h) | 100 (6.51d) | 100 (6.51d) | 100 (6.51d) |
| #8 | 赵熙羽 | 500 (24.86d) | 100 (5.91d) | | 100 (5.91d) | 100 (5.93d) | 100 (5.93d) | 100 (6.00d) |
| #9 | 高健桓 | 410 (9.11d) | 100 (28.67min) | 100 (4.45d) | 100 (1.71h) | 100 (1.89h) | 10 (4.49d) | |
| #10 | 牟茗 | 400 (4.72h) | 100 (7.17min) | 100 (57.20min) | 100 (1.66h) | 100 (1.99h) | | |
| #11 | 夏志赫 | 400 (6.02h) | 100 (25.57min) | | 100 (1.81h) | 100 (1.83h) | 100 (1.95h) | |
| #12 | 程梓豪 | 400 (18.00h) | | | 100 (4.21h) | 100 (4.46h) | 100 (4.63h) | 100 (4.71h) |
| #13 | 牛同泽 | 400 (6.49d) | 100 (26.83min) | 100 (1.68h) | 100 (1.81h) | 100 (6.33d) | | |
| #14 | 齐振玮 | 400 (10.74d) | 100 (24.58min) | 100 (5.32d) | 100 (1.78h) | 100 (5.32d) | | |
| #15 | 郑泽楷 | 300 (4.21h) | 100 (31.07min) | | 100 (1.75h) | 100 (1.94h) | | |
| #16 | 方俊喆 | 200 (1.85h) | 100 (3.97min) | | 100 (1.78h) | | | |
| #17 | 董浩桢 | 200 (12.83d) | | | | 100 (6.42d) | 100 (6.42d) | |
| #18 | 李青默 | 100 (30.93min) | 100 (30.93min) | | | | | |

您正在共享屏幕 结束共享

作业

<https://www.luogu.com.cn/contest/218902>

<https://www.luogu.com.cn/contest/218929>

课堂表现

今天的 B 题和 C 题, 是比较好的两道题, 同学们课下要好好复习一下这 2 道题。

课堂内容

U512584 competition

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

using namespace std;

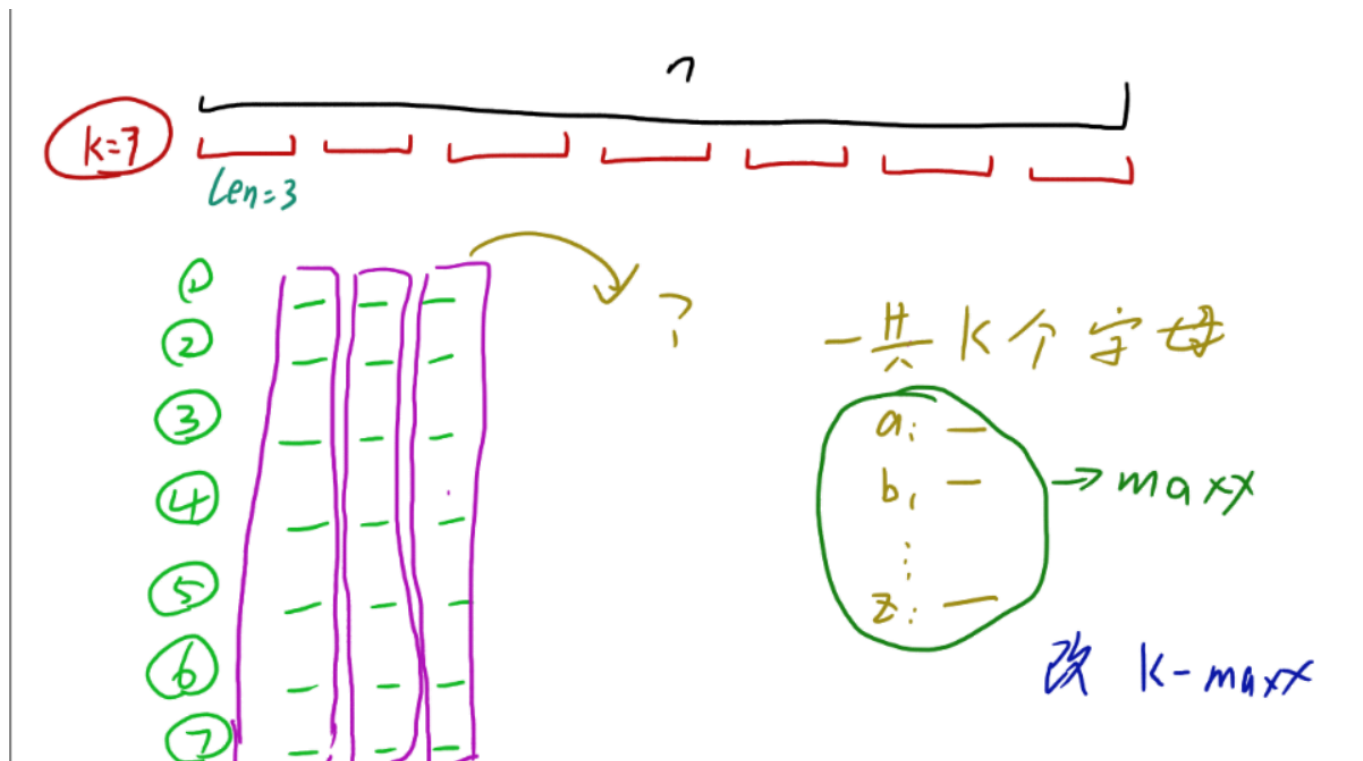
int a[10];

int main()
{
    cin >> a[1] >> a[2] >> a[3];
    int k;
    cin >> k;

    a[4] = a[1], a[5] = a[2];
    for (int i = 1; i <= 3; i++) {
        // a[i]: a[i+1], a[i+2]
        int sum = 0;
        if (a[i]>=a[i+1] && a[i]>=a[i+2]) sum = 4;
        else if (a[i]>=a[i+1] || a[i]>=a[i+2]) sum = 2;
        else sum = 1;

        if (a[i] > k) sum *= 2;
        cout << sum << " ";
    }
    return 0;
}
```

P8739 [蓝桥杯 2020 国 C] 重复字符串



```

n, k
if (n%k != 0) {
    cout << -1 << endl;
    return 0;
}

int len = n/k; // 每一份的长度都是 len

for (int i = 1; i <= len; i++) { // 第一份的第 i 个去跟后面对应
    // i: len+i, len+len+i, len+len+len+i, ..., 最终不能超过 n
    map<char, int> mp;
    int maxx = 0;
    for (int j = i; j <= n; j += len) {
        mp[i]++;
        maxx = max(maxx, mp[i]);
    }

    // 原本有 vec.size() <-> k 个字母
    // 出现最多的那个出现了 maxx 次
    // 要修改 k - maxx 次
    sum += k - maxx;
}

```

P8672 [蓝桥杯 2018 国 C] 交换次数

```

#include <bits/stdc++.h>

using namespace std;

```

```
const int maxn = 1e5 + 5;
char s[maxn], s2[maxn];
int n;
map<char, int> mp;

int calc(char a, char b, char c) {
    int cnt_1 = mp[a], cnt_2 = mp[b];
    for (int i = 1; i <= n; ++i) s[i] = s2[i];

    int res = 0, cnt_b = 0;
    for (int i = 1; i <= cnt_1; ++i) {
        if (s[i] != a) {
            ++res;
            if (s[i] == b) cnt_b++;
        }
    }

    for (int i = cnt_1+1; i <= n; ++i) {
        if (s[i] == a) {
            if (cnt_b) s[i] = b, cnt_b--;
            else s[i] = c;
        }
    }

    for (int i = cnt_1+1; i <= cnt_1+cnt_2; ++i) {
        if (s[i] != b) res++;
    }

    return res;
}

int main()
{
    cin >> (s2+1);
    n = strlen(s2+1);
    for (int i = 1; i <= n; ++i) mp[s2[i]]++;

    int res = calc('A', 'B', 'T');
    res = min(res, calc('A', 'T', 'B'));
    res = min(res, calc('B', 'A', 'T'));
    res = min(res, calc('B', 'T', 'A'));
    res = min(res, calc('T', 'A', 'B'));
    res = min(res, calc('T', 'B', 'A'));

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