

# 2020牛客暑期多校训练营（第九场）

## 比赛情况

题号	A	B	C	D	E	F	G	H	I	J	K	L
状态	0	-	-	-	0	0	-	-	0	-	0	-

0 在比赛中通过 0 赛后通过! 尝试了但是失败了- 没有尝试

比赛时间

2020-08-08 12:00-17:00

## 题解

### F - Groundhog Looking Dowdy

我们考虑把所有衣服放到一起，然后把衣服按照邈邈值排序，然后做一个类似滑动窗口的东西，每次滑动保证窗口内有m天及以上可以穿的衣服，然后用当前的最大值和最小值相减一下更新答案即可。

```
#include <bits/stdc++.h>
using namespace std;
const int N = 1e6+5;
struct Node {
    int val, bel;
}clo[N<<1];
bool cmp(const Node &x, const Node &y) { return x.val < y.val; }
int buk[N], cnt, n, m;
int main()
{
    scanf("%d%d", &n, &m);
    int ki;
    for (int i = 1; i <= n; i++) {
        scanf("%d", &ki);
        for (int j = 1; j <= ki; j++) {
            cnt++;
            scanf("%d", &clo[cnt].val);
            clo[cnt].bel = i;
        }
    }
    sort(clo+1, clo+cnt+1, cmp);
    for (int i = 1; i <= n; i++) buk[i] = 0;
    int tail = 0;
    int ans = 1e9+5;
    int cntbel = 0;
    for (int i = 1; i <= cnt; i++) {
        while (tail+1 <= cnt) {
```

```
        tail++;
        buk[clo[tail].bel]++;
        if (buk[clo[tail].bel] == 1) cntbel++;
        if (cntbel >= m) {ans = min(ans, clo[tail].val -
clo[i].val); break;}
    }
    buk[clo[i].bel]--;
    if (buk[clo[i].bel] == 0) cntbel--;
}
printf("%d\n", ans);
return 0;
}
```

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