

## 11389 The Bus Driver Problem

In a city there are  $n$  bus drivers. Also there are  $n$  morning bus routes and  $n$  afternoon bus routes with various lengths. Each driver is assigned one morning route and one evening route. For any driver, if his total route length for a day exceeds  $d$ , he has to be paid overtime for every hour after the first  $d$  hours at a flat  $r$  taka / hour. Your task is to assign one morning route and one evening route to each bus driver so that the total overtime amount that the authority has to pay is minimized.

### Input

The first line of each test case has three integers  $n$ ,  $d$  and  $r$ , as described above. In the second line, there are  $n$  space separated integers which are the lengths of the morning routes given in meters. Similarly the third line has  $n$  space separated integers denoting the evening route lengths. The lengths are positive integers less than or equal to 10000. The end of input is denoted by a case with three 0's.

### Output

For each test case, print the minimum possible overtime amount that the authority must pay.

### Constraints

- $1 \leq n \leq 100$
- $1 \leq d \leq 10000$
- $1 \leq r \leq 5$

### Sample Input

```
2 20 5
10 15
10 15
2 20 5
10 10
10 10
0 0 0
```

### Sample Output

```
50
0
```