## The Bus Driver Problem

Extracted from: UVa 11389
Source filename: bus.py
Time limit: 1 second(s)

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** 

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

Sample Input	Sample Output
2 20 5 10 15	50 0
10 15 10 15 2 20 5	
10 10	
10 10 0 0 0	