# **Build a Bridge**

Time: 1 sec / Memory: 2 GB

#### **Problem Statement**

You have n planks, where the i-th plank has a length of  $w_i$  and a cost of  $p_i$ . Your task is to build a bridge with the minimum total cost, such that the length of the bridge is at least x.

In other words, the sum of the lengths of the selected planks must satisfy  $\geq x$ , and the total cost of the these planks must be minimized.

### Input

The first line contains two integer n,x: the number of planks and the required total length of the selected planks.

The second line contains n integers. The i-th integer represents the length of the i-th plank.

The third line contains n integers. The i-th integer represents the cost of the i-th plank.

### **Output**

Output a single integer: the minimum cost to build the bridge. If it is impossible to achieve, output -1.

#### **Constraints**

$$1 \le n \le 100$$

$$1 \leq x, w_i \leq 10^9$$

$$1 \leq p_i \leq 100$$

### **Example**

Input 1:

```
5 100
25 30 70 55 26
26 37 89 61 38
```

## Output 1:

124

### Input 2:

6 1000 22 113 165 89 201 318 15 35 88 72 55 8

### Output 2:

-1