

1h 20m
left

1. Road Repair



ALL



A number of points along the highway are in need of repair. An equal number of crews are available, stationed at various points along the highway. They must move along the highway to reach an assigned point. Given that one crew must be assigned to each job, what is the minimum total amount of distance traveled by all crews before they can begin work?

For example, given crews at points {1,3,5} and required repairs at {3,5,7}, one possible minimum assignment would be {1 → 3, 3 → 5, 5 → 7} for a total of 6 units traveled.

1

Function Description

Complete the function `getMinCost` in the editor below. The function should return the minimum possible total distance traveled as an integer.

2

`getMinCost` has the following parameter(s):

`crewd`: a vector of integers

`jobld`: a vector of integers

Constraints

- $1 \leq n \leq 10^5$
- $1 \leq crewd[i] \leq 10^9$
- $1 \leq jobld[i] \leq 10^9$

Input Format For Custom Testing

Sample Case 0

Sample Input For Custom Testing

```
5
5
3
1
4
6
5
9
8
3
15
1
```

Sample Output

```
17
```

Explanation

By index, $crewd[i] \rightarrow jobld[i]$, { (0 → 0), (1 → 2), (2 → 4), (3 → 3), (4 → 1) } is one possible assignment for a minimum cost of 17. Showing element values, this is { (5 → 9), (3 → 3), (1 → 1), (4 → 15), (6 → 8) } yielding a total travel distance of $4 + 0 + 0 + 11 + 2 = 17$.

Sample Case 1

Language JavaScript (Node.js)

Autocomplete Ready



