Problem 1184: Distance Between Bus Stops

Problem Information

Difficulty: Easy
Acceptance Rate: 55.03%
Paid Only: No
Tags: Array

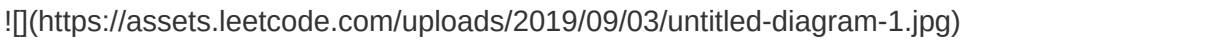
Problem Description

A bus has `n` stops numbered from `0` to `n - 1` that form a circle. We know the distance between all pairs of neighboring stops where `distance[i]` is the distance between the stops number `i` and `(i + 1) % n`.

The bus goes along both directions i.e. clockwise and counterclockwise.

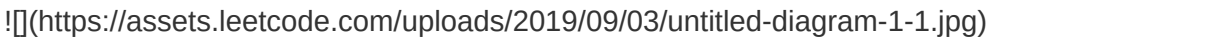
Return the shortest distance between the given `start` and `destination` stops.

Example 1:



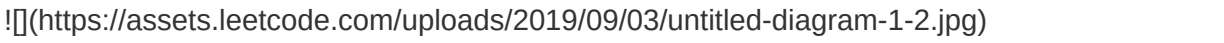
Input: distance = [1,2,3,4], start = 0, destination = 1 **Output:** 1 **Explanation:** Distance between 0 and 1 is 1 or 9, minimum is 1.

Example 2:



Input: distance = [1,2,3,4], start = 0, destination = 2 **Output:** 3 **Explanation:** Distance between 0 and 2 is 3 or 7, minimum is 3.

Example 3:



Input: distance = [1,2,3,4], start = 0, destination = 3 **Output:** 4 **Explanation:** Distance between 0 and 3 is 6 or 4, minimum is 4.

Constraints:

* `1 <= n <= 10^4` * `distance.length == n` * `0 <= start, destination < n` * `0 <= distance[i] <= 10^4`

Code Snippets

C++:

```
class Solution {
public:
int distanceBetweenBusStops(vector<int>& distance, int start, int
destination) {

}
};
```

Java:

```
class Solution {
public int distanceBetweenBusStops(int[] distance, int start, int
destination) {

}
}
```

Python3:

```
class Solution:
def distanceBetweenBusStops(self, distance: List[int], start: int,
destination: int) -> int:
```