517. Super Washing Machines

Description

You have `n` super washing machines on a line. Initially, each washing machine has some dresses or is empty.

For each move, you could choose any `m` (`1 <= m <= n`) washing machines, and pass one dress of each washing machine to one of its adjacent washing machines at the same time.

Given an integer array `machines` representing the number of dresses in each washing machine from left to right on the line, return *the minimum number of moves to make all the washing machines have the same number of dresses*. If it is not possible to do it, return `-1`.

Example 1:

```
Input: machines = [1,0,5]
Output: 3
Explanation:
1st move:    1     0 <-- 5    =>    1     1     4
2nd move:    1 <-- 1 <-- 4    =>    2     1     3
3rd move:    2     1 <-- 3    =>    2     2     2
```

Example 2:

```
Input: machines = [0,3,0]
Output: 2
Explanation:
1st move:    0 <-- 3     0    =>    1     2     0
2nd move:    1     2 --> 0    =>    1     1     1
```

Example 3:

```
Input: machines = [0,2,0]
Output: -1
Explanation:
It's impossible to make all three washing machines have the same number of dresses.
```

Constraints:

- `n == machines.length`
- `1 <= n <= 10^4`
- `0 <= machines[i] <= 10^5`