Is it possible to sort the array?

Given an integer **D** and an array **A[ ]** of **N** integers. At each operation you can select the elements which are at index **i** and **(i + D)%N** and you can swap the both elements. The task is to check if it is possible to sort the array by performing the above operation zero or more times.

Note: 0 based indexing is used.

Example 1:

```
Input:
N = 4, D = 2
A[] = {3, 2, 1, 5}
Output:
Yes
Explanation:
We can sort the array in one operation.
1st operation: swap(A[i], A[(i+D)%N])
where i = 0.
```

Example 2:

```
Input:
N = 2, D = 0
A[] = {5, 2}
Output:
No
Explanation:
It is not possible to sort the array.
```

Your Task:

You don't need to read input or print anything. Complete the function **check( )** which takes integer **D,** integer **N** and array **A[ ]** as input parameters and returns **true** if it is

possible to sort the array by performing the above operation zero or more times else return **false**.

Constraints:

$1 \leq N \leq 10^5$

$1 \leq A[i] \leq N$

$0 \leq D < N$