**[Make array elements unique](https://practice.geeksforgeeks.org/problems/6e63df6d2ebdf6408a9b364128bb1123b5b13450/1)**

Given an array **arr[ ]**of **N**elements, your task is to find the minimum number of increment operations required to make all the elements of the array unique. ie- no value in the array should occur more than once. In an operation a value can be incremented by 1 only.

**Example 1:**

**Input:**

N = 3

arr[] = {1, 2, 2}

**Output:**

1

**Explanation:**

If we increase arr[2] by 1 then the resulting

array becomes {1, 2, 3} and has all unique values.

Hence, the answer is 1 in this case.

**Example 2:**

**Input:**

N = 4

arr[] = {1, 1, 2, 3}

**Output:**

3

**Explanation:**

If we increase arr[0] by 3, then all array

elements will be unique. Hence, the answer

is 3 in this case.

**Your Task:**  
You dont need to read input or print anything. Complete the function **minIncrements()**which takes the array **arr[ ]** and its size **N**as the input parameters, and returns the minimum increment operations required to make all elements of the array unique.

**Expected Time Complexity:** O(N\*log(N))  
**Expected Auxiliary Space:** O(1)

**Constraints:**  
1 ≤ N ≤ 105  
1 ≤ arr[i] ≤ 109