Given an array **arr** of distinct elements of size **N**, the task is to rearrange the elements of the array in a zig-zag fashion so that the converted array should be in the below form:

arr[0] < arr[1] > arr[2] < arr[3] > arr[4] < . . . . arr[n-2] < arr[n-1] > arr[n].

NOTE: If your transformation is correct, the output will be 1 else the output will be 0.

Example 1:

Input:
N = 7
Arr[] = {4, 3, 7, 8, 6, 2, 1}
Output: 3 7 4 8 2 6 1
Explanation: 3 < 7 > 4 < 8 > 2 < 6 > 1

Example 2:

Input:
N = 4
Arr[] = {1, 4, 3, 2}
Output: 1 4 2 3
Explanation: 1 < 4 > 2 < 3

Your Task:
You don't need to read input or print anything. Your task is to complete the function **zigZag()** which takes the array of integers **arr** and **n** as parameters and returns void. You need to modify the array itself.

Expected Time Complexity: O(N)
Expected Auxiliary Space: O(1)

Constraints:
$1 <= N <= 10^6$
$0 <= Arr_i <= 10^9$