For fixing msI problem, think about handling the data collection like some sort of completing the square problem.

First find the largest 2^k is less than or equal to n, save the remainder of n%2^k as nRem. Now set 2^k as the value for fakeN, and sort from 0 to fakeN.

Then, start reducing k, until 2^k is less than nRem, repeating the process from before you can work the value of nRem down to a point where it does become a power of 2 and we can get a clean indexing as we sort it into the other part of the array.

This will introduce some horrible time complexity though, so I don’t really know how to fix that issue yet.