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Test cases (including the edge cases): input:[2,4,1], output: 3 input: [1], output: 2 input: [999, 998, 3, 2], output: 1	time complexity: O(n) space complexity:O(n)
/*main algorithm: XOR If a == b, a ^ b == 0 If a != 0, a ^ 0 == a Array A = {1,2,n}, array B = {1,2,n-1} If we XOR every item in A and B, since we can always find a corresponding item in A that makes B[i] == A[j], then the result of B[i] ^ A[j] is equal to Thus the final call will be A[j] ^ 0 = A[j], then we f the missing item. */	0 0. }
<pre>int findMissingItem(List<integer> numList) { int n = numList.size(); // invalid input if (n < 1) return -1;</integer></pre>	
// set array = {1,2,, n + 1} int[] array = new int[n + 2]; for(int i = 1; i <= n + 1; i++) array[i] = i;	
return XOR(numList, array); }	