

[My Submissions \(/contest/biweekly-contest-43/problems/construct-the-lexicographically-largest-valid-sequence/submissions/\)](/contest/biweekly-contest-43/problems/construct-the-lexicographically-largest-valid-sequence/submissions/)

- The integer 1 occurs once in the sequence.
- Each integer between 2 and n occurs twice in the sequence.
- For every integer i between 2 and n , the **distance** between the two occurrences of i is exactly i .

Return the **lexicographically largest** sequence. It is guaranteed that under the given constraints, there is always a solution.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Input: n = 3
Output: [3,1,2,3,2]
Explanation: [2,3,2,1,3] is also a valid sequence, but [3,1,2,3,2] is the lexicographically largest valid sequence.

Input: n = 5
Output: [5,3,1,4,3,5,2,4,2]

- $1 \leq n \leq 20$





```
1 /**  
2  * @param {number} n  
3  * @return {number[]}  
4  */  
5 var constructDistancedSequence = function(n) {  
6  
7 };
```

 $\frac{1}{2}$