

## 1187. Make Array Strictly Increasing

Hint ⓘ

Hard

1.5K

28

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🔄

Companies

Given two integer arrays `arr1` and `arr2`, return the minimum number of operations (possibly zero) needed to make `arr1` strictly increasing.

In one operation, you can choose two indices  $0 \leq i < arr1.length$  and  $0 \leq j < arr2.length$  and do the assignment `arr1[i] = arr2[j]`.

If there is no way to make `arr1` strictly increasing, return `-1`.

## Example 1:

**Input:** `arr1 = [1,5,3,6,7]`, `arr2 = [1,3,2,4]`

**Output:** 1

**Explanation:** Replace 5 with 2, then `arr1 = [1, 2, 3, 6, 7]`.

## Example 2:

**Input:** `arr1 = [1,5,3,6,7]`, `arr2 = [4,3,1]`

**Output:** 2

**Explanation:** Replace 5 with 3 and then replace 3 with 4. `arr1 = [1, 3, 4, 6, 7]`.

## Example 3:

**Input:** `arr1 = [1,5,3,6,7]`, `arr2 = [1,6,3,3]`

**Output:** -1

**Explanation:** You can't make `arr1` strictly increasing.

i Java Auto

```

1 class Solution {
2     public int makeArrayIncreasing(int[] A, int[] B) { // A = arr1, B = arr2
3         TreeSet<Integer> set = new TreeSet<>(Arrays.stream(B).boxed().toList());
4         int[] dp = new int[B.length+1];
5         dp[0] = -1;
6         int INF = (int)2e9;
7         for (int i = 0; i < A.length; i++){
8             for (int j = B.length; j >= 0; j--){
9                 int a = A[i] > dp[j]? A[i] : INF; // option A - don't swap
10                Integer b = set.higher(j==0?INF:dp[j-1]); // option B - swap
11                dp[j] = Math.min(a, b==null?INF:b); // take the min of A and B
12            }
13        }
14        for (int i = 0; i <= B.length; i++) if (dp[i] != INF){
15            return i;
16        }
17        return -1;
18    }
19 }
```

Testcase Result

Accepted Runtime: 3 ms

• Case 1 • Case 2 • Case 3

Input

arr1 =

[1,5,3,6,7]

arr2 =

[1,3,2,4]

Output

1

Expected

Console



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## 22. Generate Parentheses

Medium

18.3K

742



Companies

Given  $n$  pairs of parentheses, write a function to *generate all combinations of well-formed parentheses*.

### Example 1:

**Input:**  $n = 3$

**Output:** ["((()))","(()())","(())()","()()()","()()()"]

### Example 2:

**Input:**  $n = 1$

**Output:** ["()"]

### Constraints:

- $1 \leq n \leq 8$

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Seen this question in a real interview before? 1/4

Yes

No

Discussion (47)

```
1 class Solution {
2     public List<String> generateParenthesis(int n) {
3         List<String> result = new ArrayList();
4         findAll("(",1,0,result,n);
5         return result;
6     }
7     void findAll(String current, int o, int c, List<String> result,int n){
8
9         if(current.length()==2*n){
10             result.add(current);
11             return;
12         }
13         if(o<n)findAll(current+"(",o+1,c,result,n);
14         if(c<o)findAll(current+")",o,c+1,result,n);
15     }
16 }
```

Testcase Result

Accepted Runtime: 0 ms

Case 1

Case 2

Input

$n =$

3

Output

["((()))","(()())","(())()","()()()","()()()"]

Expected

["((()))","(()())","(())()","()()()","()()()"]

Console



Run

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