

# Array #10

## Leetcode #1299

### Replace Elements with Greatest Element on Right Side

<https://leetcode.com/problems/replace-elements-with-greatest-element-on-right-side/description/>

Given an array of integers `arr`, replace every element in that array with the greatest element among the elements to its right, and replace the last element with -1. After doing so, return the array.

Example 1:

Input: `arr = [17, 18, 5, 4, 6, 1]`

Output: `[18, 6, 6, 6, 1, -1]`

`[18, 6, 6, 6, 1, -1]`

Example 2:

Input: `arr = [400]`

Output: `[-1]`

Constraints:

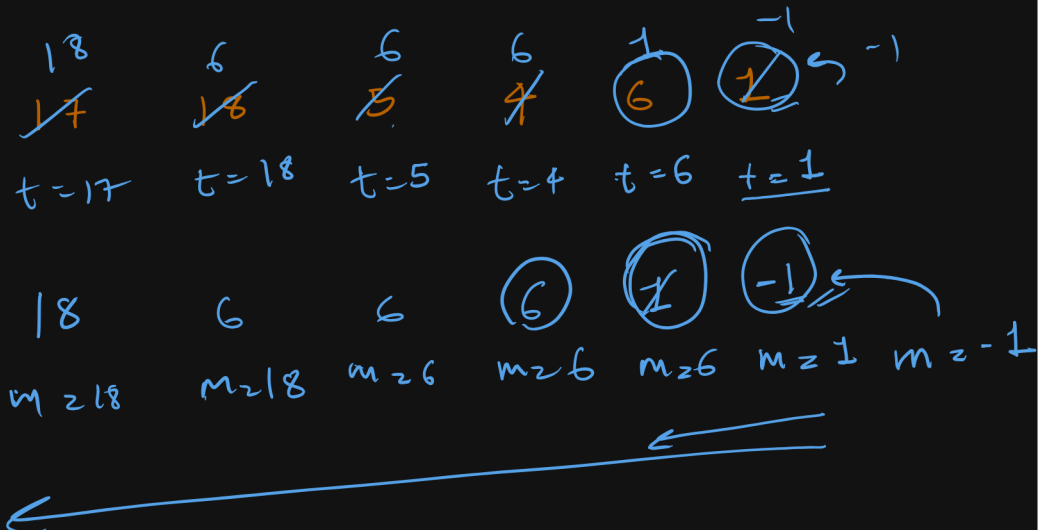
$1 \leq \text{arr.length} \leq 10^4$

$0 \leq \text{arr}[i] \leq 10^5$

Companies:

Amazon, Adobe

Approach:



Time complexity:

$O(N)$

Space Complexity:

$O(1)$

```
class Solution {  
    public int[] replaceElements(int[] arr) {  
        int max = -1;  
  
        for (int i = arr.length - 1; i >= 0; i--) {  
            int temp = arr[i];  
            arr[i] = max;  
            max = Math.max(max, temp);  
        }  
  
        return arr;  
    }  
}
```