Graphical user interface, text, application

Description automatically generated

**Solution 1:**

class Solution:

    def replaceElements(self, arr: List[int]) -> List[int]:

      for i in range(0,len(arr)-1):

        max = arr[i+1]

        for j in range(i+2, len(arr)):

          if(max<arr[j]):

            max = arr[j]

        arr[i] = max

      arr[len(arr)-1]=-1

      return arr

demo = Solution()

demo.replaceElements([17,18,5,4,6,1])

**Output:**

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

**Time Complexity:** O(n2) - as here many repeated work is doing

**Space Complexity:** O(n) - ?

**Solution 2:**

class Solution:

    def replaceElements(self, arr: List[int]) -> List[int]:

      for i in range(0,len(arr)-1):

        max = arr[i+1]

        for j in range(i+2, len(arr)):

          if(max<arr[j]):

            max = arr[j]

        arr[i] = max

      arr[len(arr)-1]=-1

      return arr

demo = Solution()

demo.replaceElements([17,18,5,4,6,1])

**Output:**

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

**Time Complexity:** O(n)

**Space Complexity:** O(n) - ?