Nacwadi	Marwadi University	
Marwadi University	Faculty of Technology	
	Department of Information and Communication Technology	
Sem: 4	Name: VEDANT BHARAD	
Day: 114	Date: 8/2/2023	Enrollment No: 92100133023

CP Club 365 Days Challenge

Programming language – PYTHON

Problem Statement

https://practice.geeksforgeeks.org/problems/heapsort/1?page=1&status[]=unsolved&curated[]=1&sortBy=submissions

Git :- https://github.com/Vedantbharad2603/CP club 365 Days



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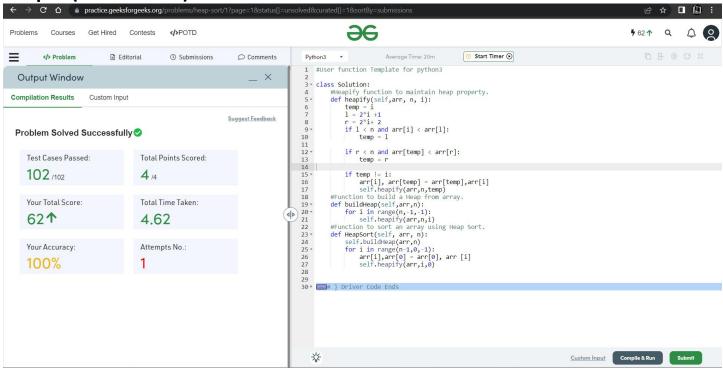
Sem: 4 Name: VEDANT BHARAD

Your Code:

```
class Solution:
        1 = 2*i +1
       r = 2*i + 2
            arr[i], arr[temp] = arr[temp],arr[i]
    def buildHeap(self,arr,n):
        for i in range(n,-1,-1):
            self.heapify(arr,n,i)
        self.buildHeap(arr,n)
        for i in range(n-1,0,-1):
            self.heapify(arr,i,0)
# Driver Code Starts
import atexit
_INPUT_LINES = sys.stdin.read().splitlines()
input = iter(_INPUT_LINES).__next__
_OUTPUT_BUFFER = io.StringIO()
sys.stdout = _OUTPUT_BUFFER
@atexit.register
def write():
    sys.__stdout__.write(_OUTPUT_BUFFER.getvalue())
    test_cases = int(input())
    for cases in range(test_cases):
       n = int(input())
       arr = list(map(int, input().strip().split()))
       Solution().HeapSort(arr,n)
        print(*arr)
 } Driver Code Ends
```

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Output (Screen Shot):



Understanding about problem:

• In this task I need to sort given array using Heap Sort.

Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

ALL THE BEST

Team CP Club