Day-26

Python DSA

Ceil The Floor

https://www.naukri.com/code360/problems/ceiling-in-a-sorted-array_1825401?leftPanelTabValue=PROBLEM

```
def getFloorAndCeil(arr, n, x):
 floor_val, ceil_val = -1, -1
 l, h = 0, n - 1
 while I <= h:
    mid = (l + h) // 2
    if arr[mid] == x:
      # If exact match, both floor and ceil are x
      return x, x
    elif arr[mid] < x:</pre>
      floor_val = arr[mid] # possible floor
      l = mid + 1
    else:
      ceil_val = arr[mid] # possible ceil
      h = mid - 1
 return floor_val, ceil_val
Time Complexity-O(log N)
Space Complexity- O(1)
```