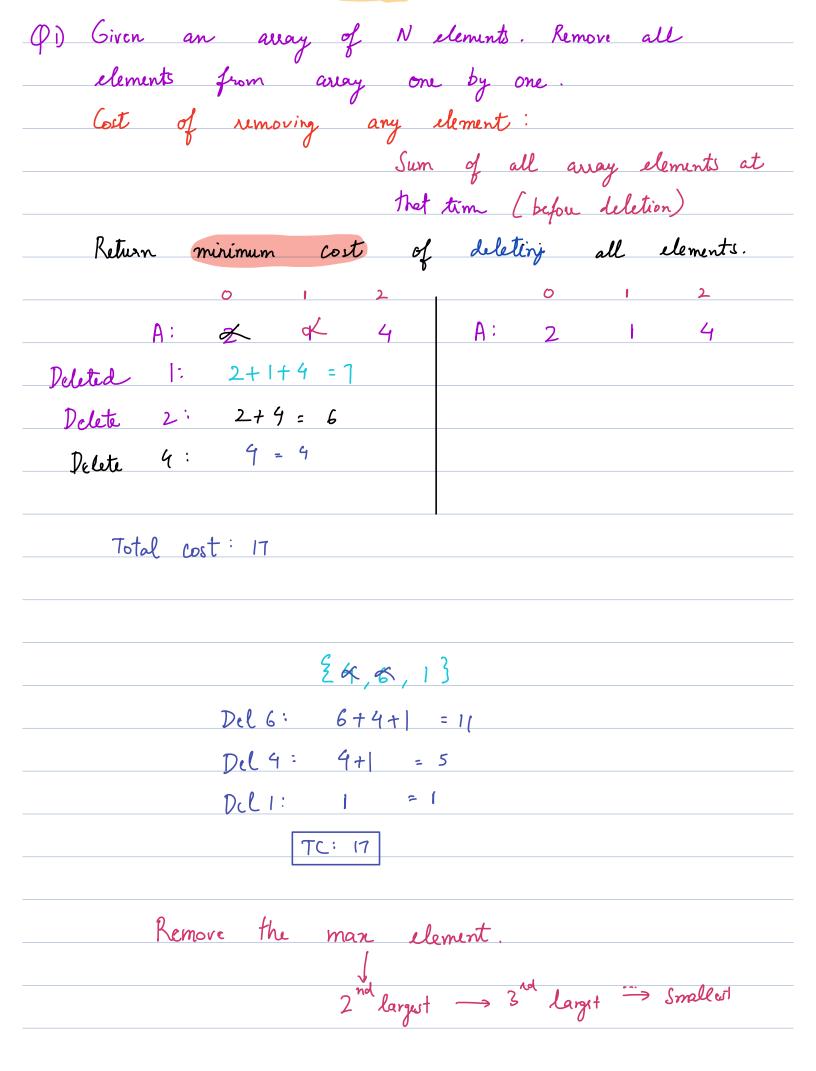
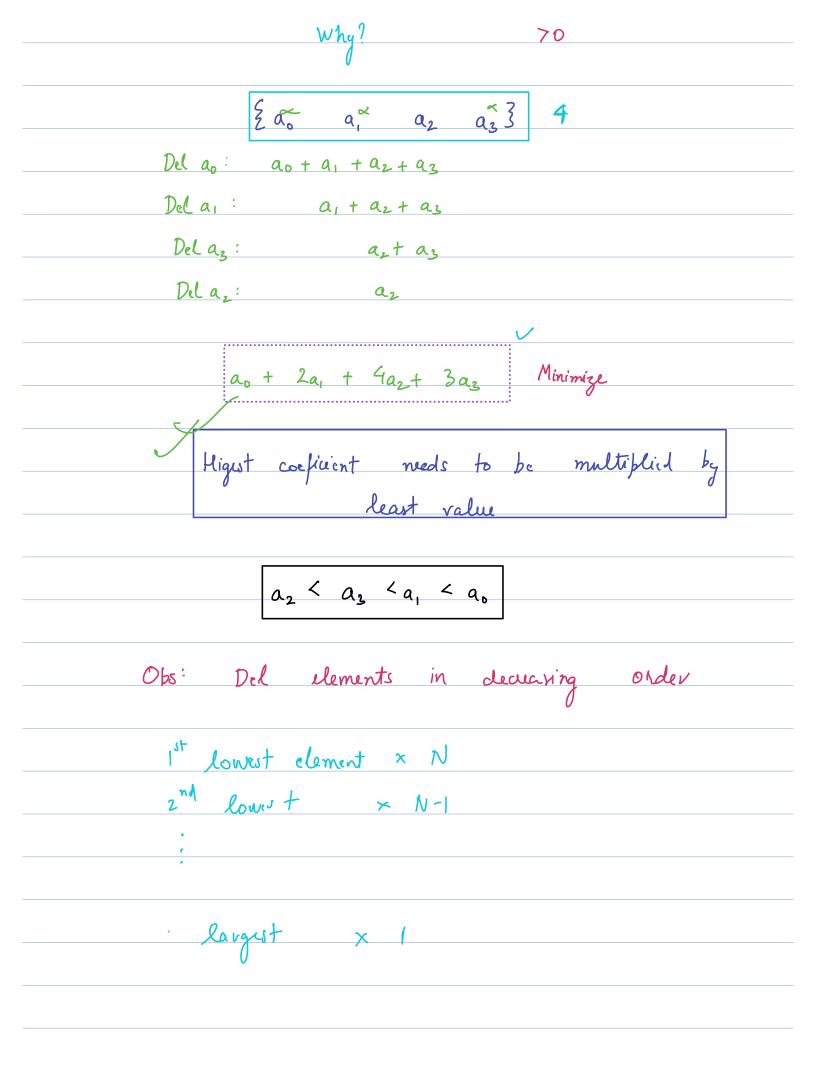
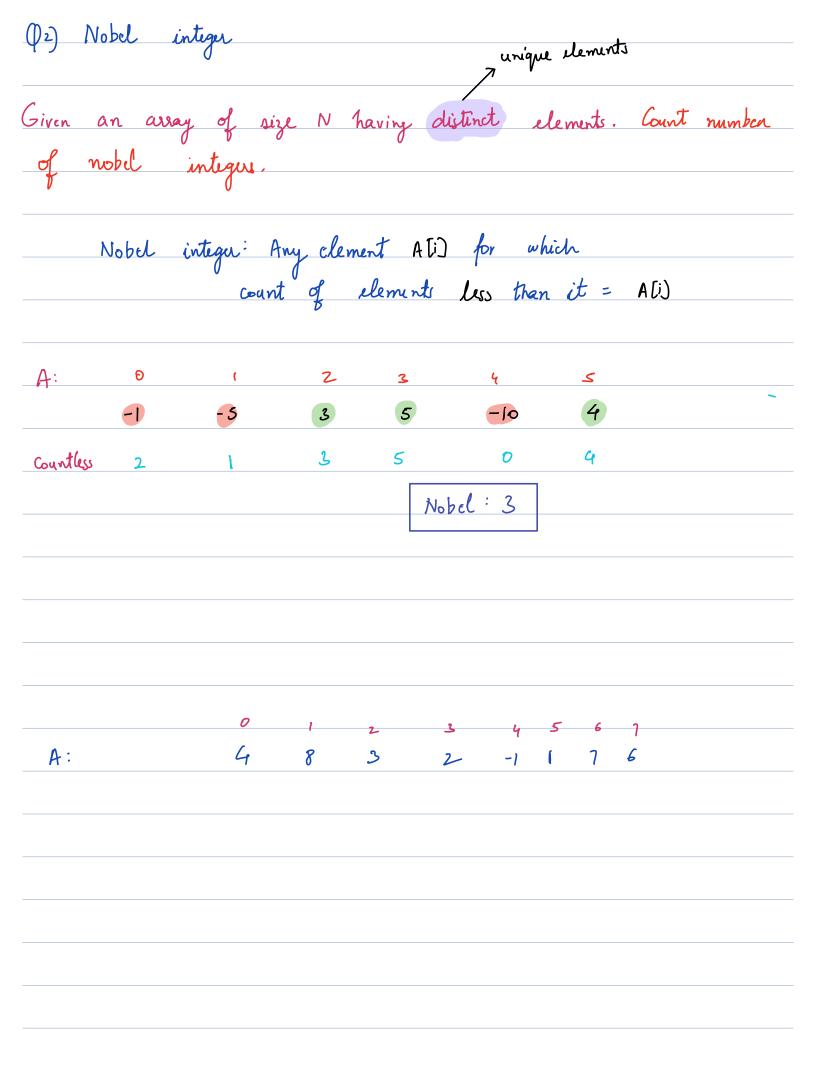
	Friday: Contest 2  E Bit Manipulation, sorting, modula:  arithmatic, string 3  Arranging data in icreasing or decreasing order based on a parameter						
Sorting: A,							
	Cricketers	Salary	Rune				
	MSD	14 3	7000				
	Virot	5μ <sup>9</sup>	10000				
	Sky	0.54	3000				
	Tadeja	Ih <sup>2</sup>	2500				
	Inc		Dec				
	£ 3 5 7	9 103	Inc				
			band on value				
	£1,13,9,	6,123	Inc				
			band on factors				

Algorithms	
D Al Merge sort	
2) A2 Puik sort : Selection so	Advanud
: Selection s	ort
· Problem solving based on so	oting
	<i>U</i>
How to sort an	array in your language?
D h	
V	Ctt Java
L = L.sort()	sort (l, l+n) Collection
√ Inc	
	O(NlogN)
SC: (	(i)

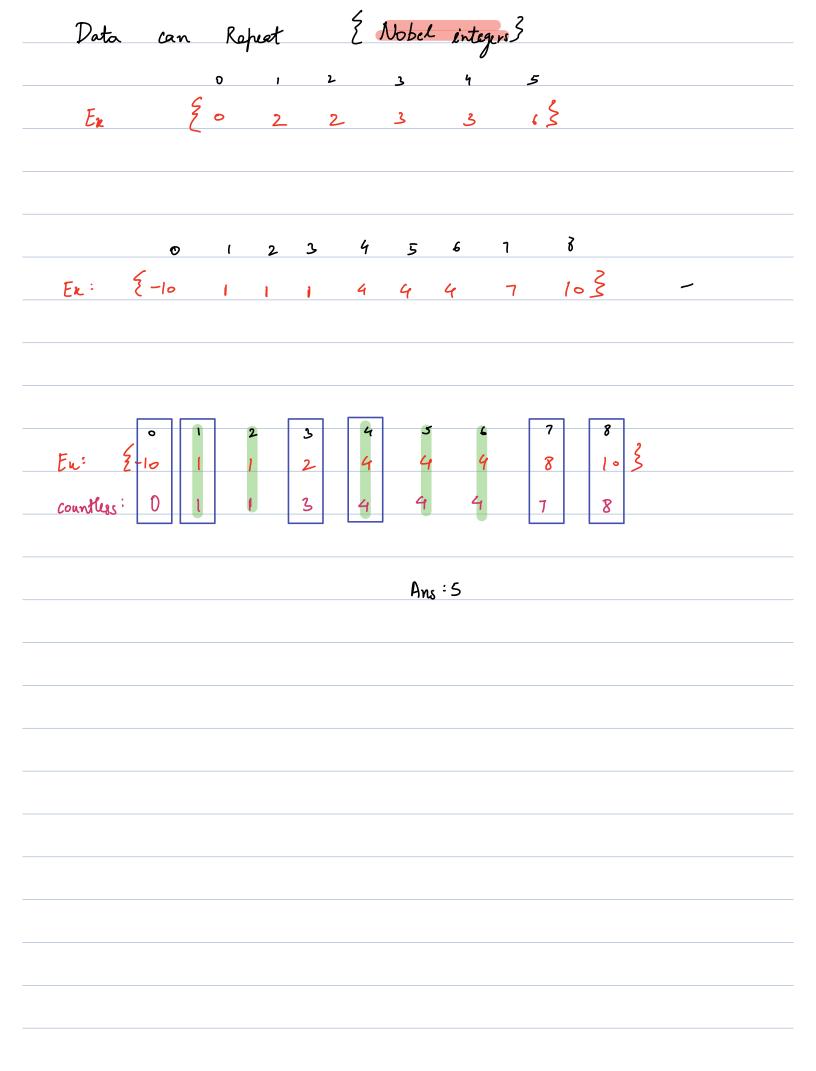


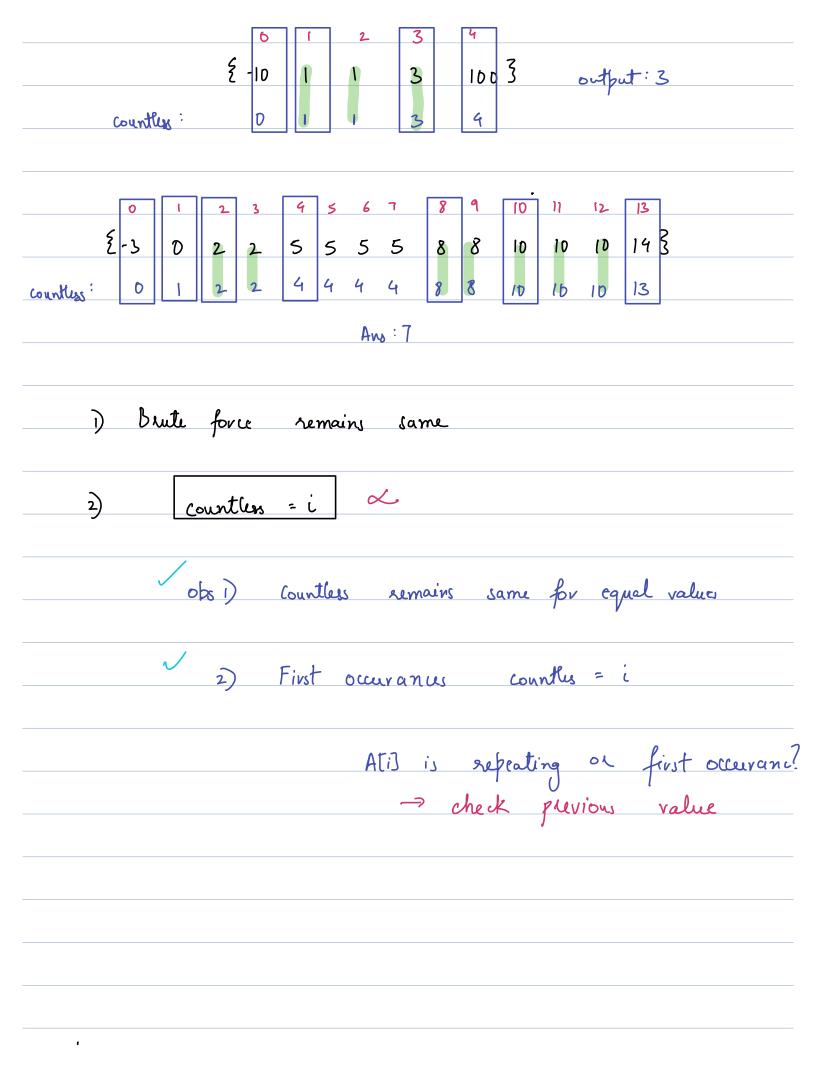


l.sort() //ascorder mincost = 0 TC: O(NlogN tax) SC: O(i) temp=N for (i=0; i<N; i++) { mincost += temp \* A[i] temp -return mincost Countles!



```
5 3
        £ -3
                 6
                      2
   countres 0
                     nobel = 1
                                          7C:0(N2)
    Brute force: For every index i
                       count no of iles < Ati)
                           count == A[i]
                                 # nobel
  Optimised approach:
Sort
countless: 0 1
           countless = i
                         L.sort() nobel=0
                                                7 (: O(NlogN)
                         for (i=0; i < N; i++) {
                           if (A[i] == i) {
|
| nobel ++
3
```





L. sout() nobel = 0, wentless = 0 for (i=D; i<N; i++) { TODO: fix this if (A[i]!= A[i-1]) { code countlys = i if (countles = = A[i]) { nobel++ 10:39 - 10:50

9	Given		am	ano	ry,	sort 1	the	allay	based	en	number
	of	1	actors	?							number
	9	a	2	1.		<u>ч</u>	0 5	ر ع			
		7		9	8	16	3	6 5			