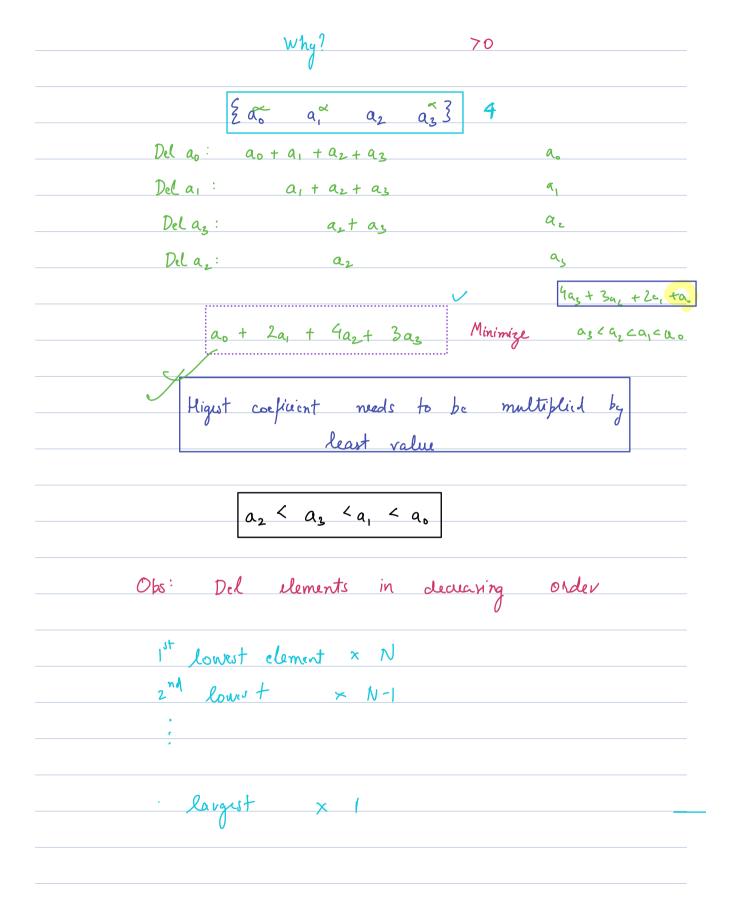
		¿ Bit Ma,	Contest 2 ripulation, sorting, modula natic, string 3
Sorting:	Arranging data in based on a po	icreasing of	decreasing order
	Cicheters	Salary	Rune
	MSD	14 B	700 ₀
	Virot	5μ ⁹	ldodo
	Sky	0.54	3000
	Tadeja	Iμ ²	2500
	Inc		Dec
	£ 3 5 7		Inc band on value
	٤١, ١૩, ٩,	6,123	Inc
			band on factors

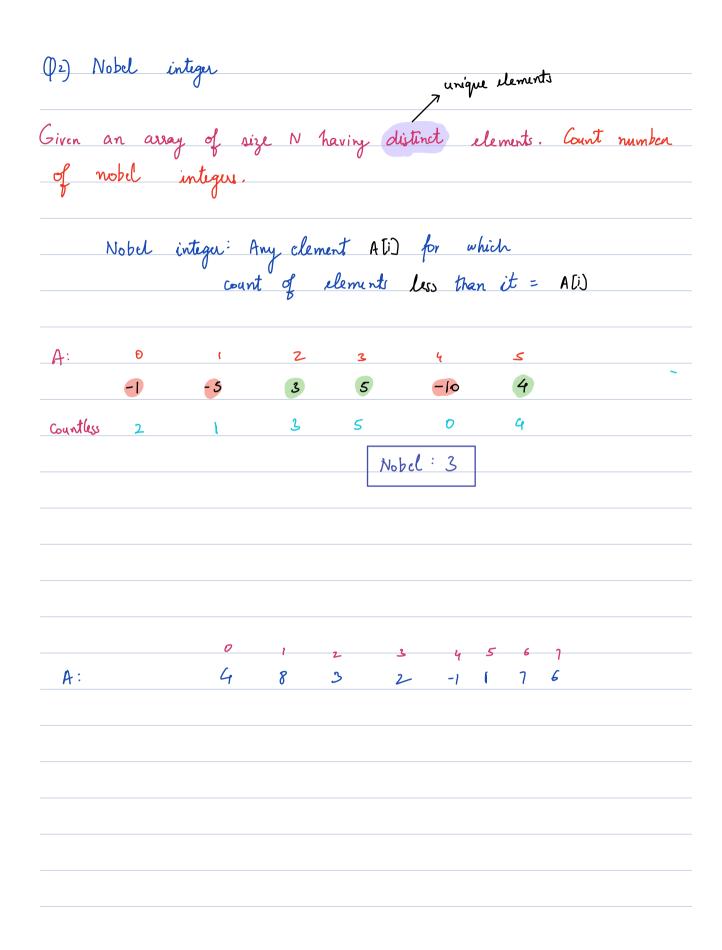
Algorithm	15		
D AI Me	rge sort		
2) A2 Pu ;	ick sort	Advanud	
·	lection sort		
	:		
· Problem solving based	on soutime		
Problem solving based		<u>/</u>	
How to sort	an arra	uy in your	larguage?
		<i>Y Y</i>	0 0
Python	C-	ff	Java
L= (1.sort()	Son	t (l, l+n)	Collection set()
Inc			
Inc	TC: O(Nl SC: O(1)	Log N)	
	sc: oli)		

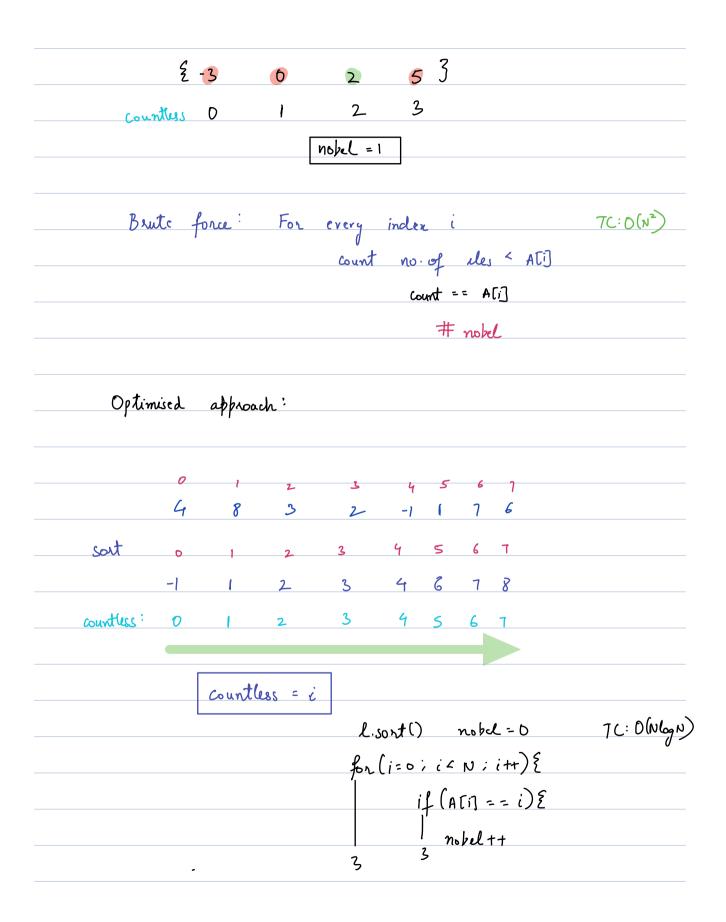
Zomoto

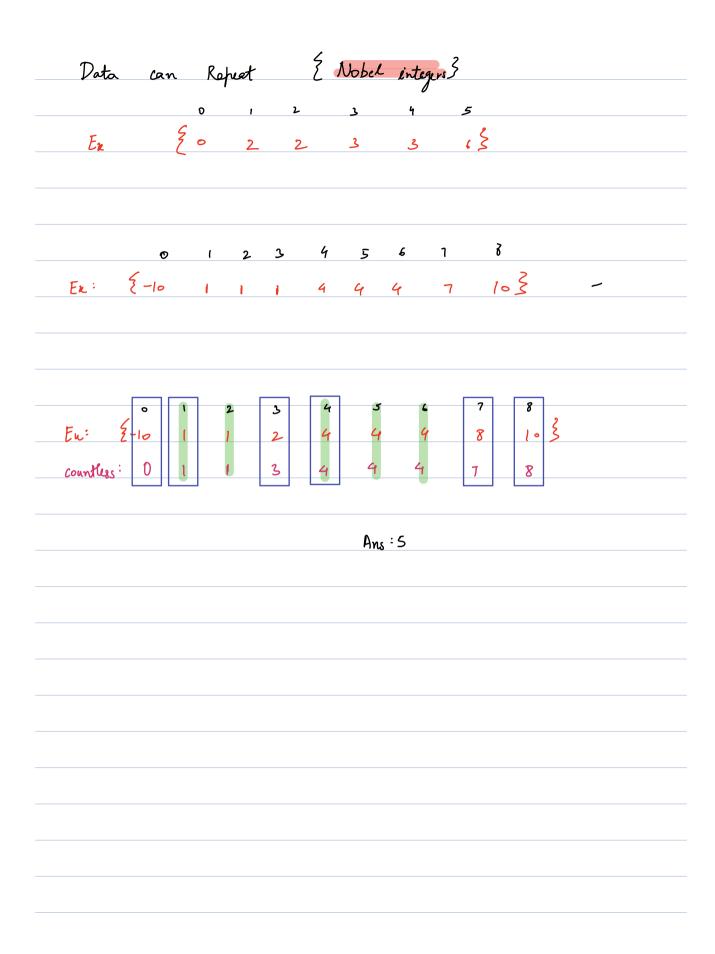
(P) Given an away of N elements.	Remove all
elements from away one by one	
Cost of removing any element:	
and the control of th	array elements at
that tim (buf	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Return minimum cost of deleting	
0 1 2 0	
A: & & 4 A: 2	
Delete 2: 2+4 = 6 Delete 4: 9 = 4	
Delete 4: 9 = 4	
Total cost: 17	
差4,6,13	
Del 6: 6+4+1 = 11	
Del 4: 4+1 = 5	
Del 1: 1 = 1	
TC: 17	
Remove the man element.	
1	
2 not largest -> 3 not	laget -> Smaller

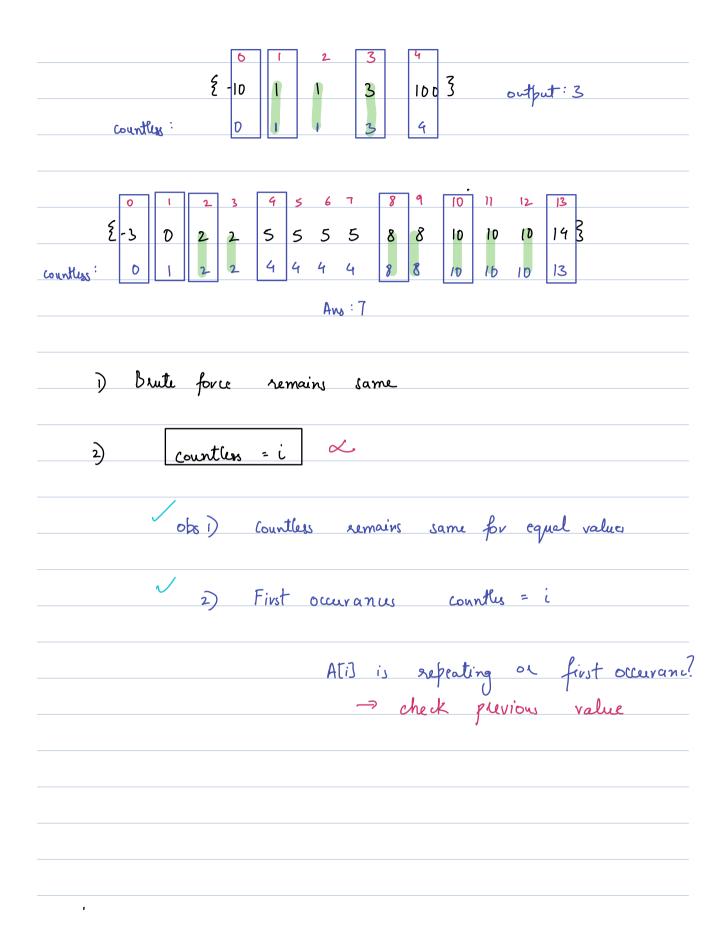


L.sout() // asc	onder
	TC: O(NlogN tox)
temp=N	sc: 0(i)
for (i=o; i <n; i-<="" td=""><td>++) }</td></n;>	++) }
mincost += ten temp	np* A[i]
1 temp	
return mincost	
o 1 2	3
	3)
countless. 0 1 2	





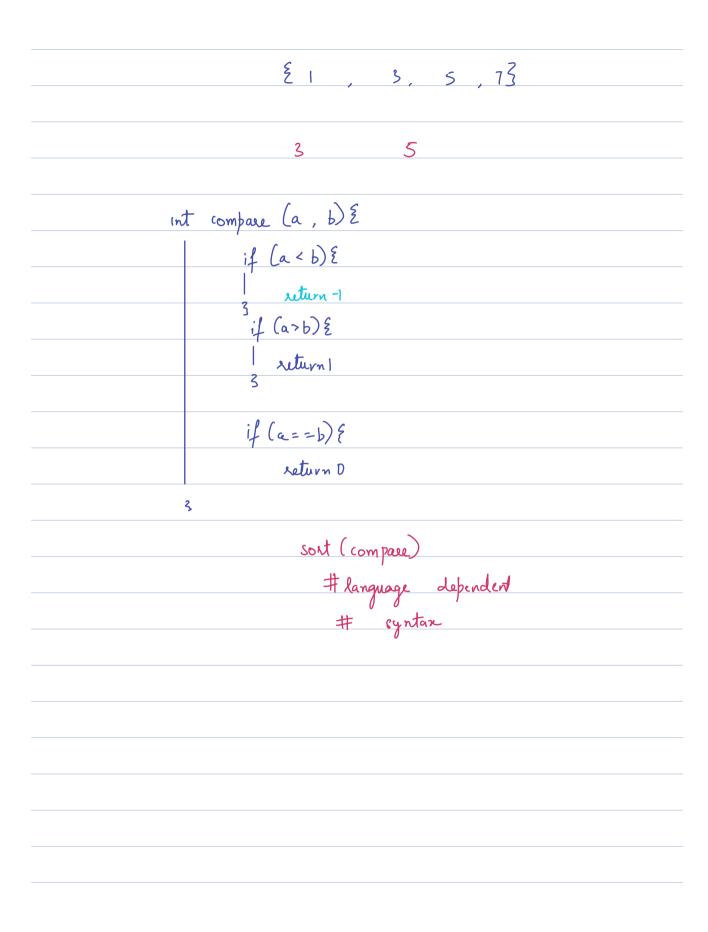


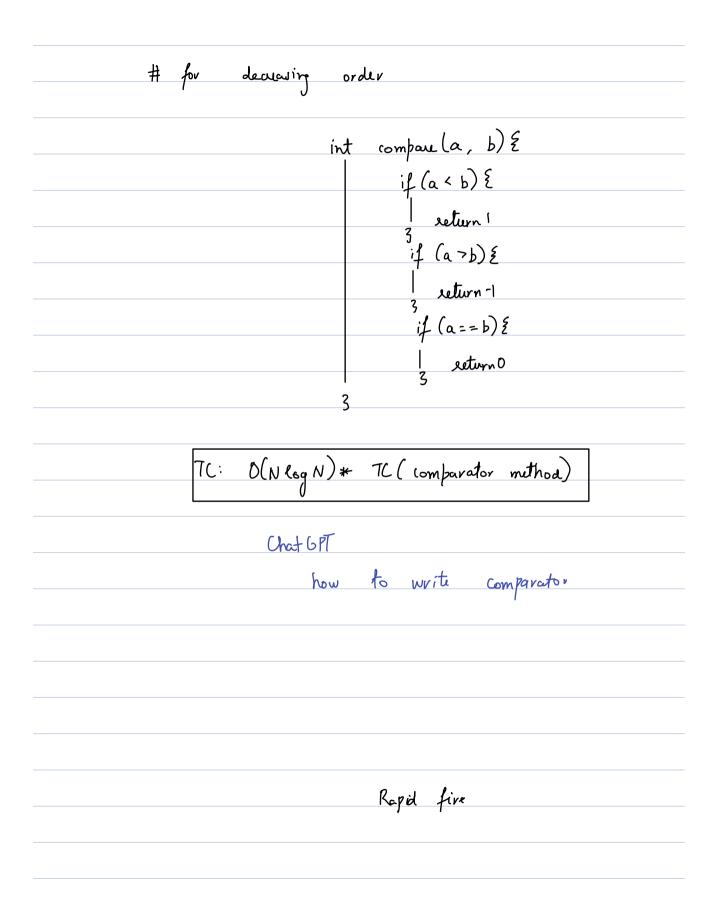


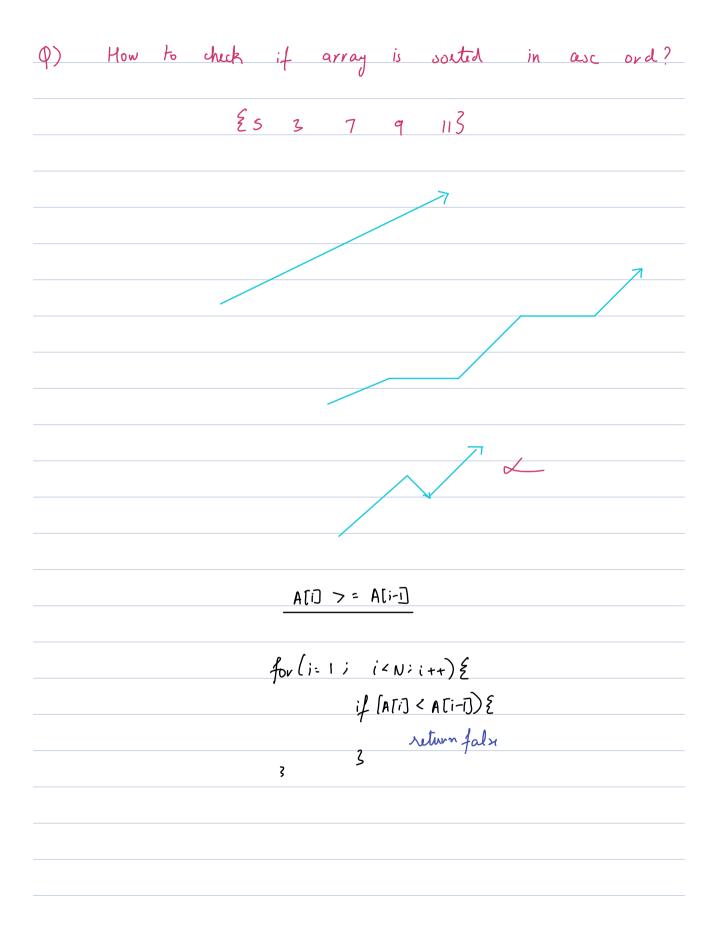
```
(.sout()
  nobel = 0, wentless = 0
for (i=D; i<N; i++) { TODO: fix this
  if (A[i]!= A[i-J) {
   z countlus = i
   if (countles = = A[i]) {
      nobeltt
          10:39 - 10:50
        Comparator
         [x,y,z]
    Compare & and y
     Compare y and z
             y < Z
          [z, y, z]
```

of Given an array, sort 1 the array based on number of factors? if no of factors are equal sort bous £9348163763 factors: 3 2 3 4 5 2 9 Sortin: £3, 37, 4, 9, 6, 8, 163 int compare (a, b) { cf-a = count factor (a) cf -b = (ourt factors (b) if (cf-a < cf-b) { return -1 if (cf-a > cf-b) { seturn 1 if (cf-a = = cf-b){ if (a < b) { 1 seturn -1 if (a>b) { uturn if (a==b){ return D

sort () // sorts in asc order , attribute??
sout () comparators
comparators: It is a function with help of which we can overvide and sort data basis a giran athibut
Rale:
1) (omparator takes 2 parameters as imput 2) returs 0,-1,1
3) If you return -1 (first parameter will appear before second parameter)
4) If you return 1 (2 nd parameter will appearanter) before first parameter)
5) If you retur 0 (anything can come finite increasing order
U







	led tool
Q	Avrag thick if it is an AP?
	£ 3 6 0 -3 -6 93
	sort
	Sort 2 6 93
	3
	sout()
	d = A[i] - A[o]
	for (i=1;i4 N;i+t){
	if (A[i] - A[i-i] 1 = d) & Leturn fals
	Leturn fals
	3

