

Name

ID

Program

Semester

Paper

Teacher

Roll number

CU BMS 21

15421

BS (CIS)

304

Data structure

Sir M. Adil

a) Let the size of $A[i]$ be 15654 is
The Lower bound be 36767. Calculate the
Upper bound

We know that
For finding upper bound we have

$$Ub = A[i] + lb - 1$$

$$Ub = 15654 + 36767 - 1$$

So

$$Ub = 52420$$

Ans

b) Suppose a list of 350 element is sorted
using Bubble sort. Then find

i) Total number of passes

ii) Total number of steps

iii) Number of steps in Pass #

iv) Number of steps in Pass #

The given list using selection

10, 15, 0, 7, 8, 6

Solution

we have $n = 6$

Steps: $no. = 6 - 1 = 5$

element 10

(10)	15	(0)	7	8	6
0	15	10	7	8	6

element 15

0	(15)	10	7	8	(6)
0	6	10	7	8	15

element 10

0	6	(10)	(7)	8	15
0	6	7	10	8	15

element 15

0	6	7	(10)	(15)	8
0	6	7	10	8	15

element 7

0	6	7	8	(10)	(15)
0	6	7	8	10	15

Aug 1911 in The Indies

1. ~~Physical~~ Physical

2. Logical

3. data structure

4. ~~code~~ code

5. ~~time~~ time

6. ~~memory~~ memory

7. ~~input~~ input

8. ~~output~~ output

9. ~~error handling~~ error handling

10. ~~testing~~ testing