

C, C++, DSA in depth

Doubt class assignment-18



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0	1	2	3	4	5	6	7	8	9
10	20	30	40	50	60	70	80	90	100

$$\text{Sum} = \text{Sum} + a[i]$$

$$i=0 \quad \text{Sum} = 0 + a[0]$$

$$i=1 \quad \text{Sum} = 10 + a[1]$$

$$i=2 \quad \text{Sum} = 30 + a[2]$$

0 1 2 3 4 5 6 7 8 9

2 13 7 16 20 14 10 5 6 3

max

13

max = a[0];

for (i = 1; i <= 9; i++)

if (a[i] > max)

max = a[i];

Sorting

Logical arrangement of elements.

0	1	2	3	4	5	6	7	8	9
20	50	30	10	90	60	70	40	80	5

(20, 50) (50, 30)

20 30 50

(0, 1)

(1, 2)

(2, 3)

⋮

(8, 9)

for ($i=0$; $i \leq 8$; $i++$)

if ($a[i] > a[i+1]$)

swap

0	1	2	3	4	5	6	7	8	9
50	20	30	80	10	40	60	90	100	70

max = 50

second_max = 30