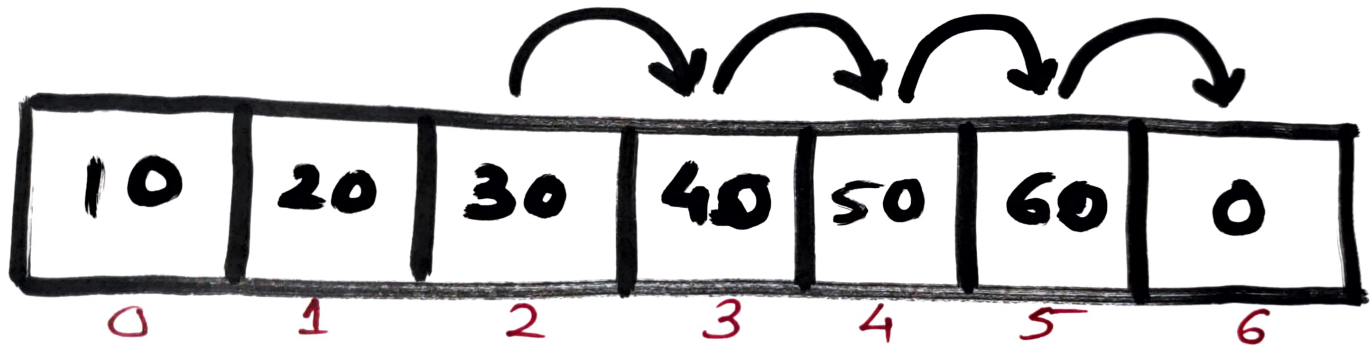


step 1:

0	1	2	3	4	5	6
10	20	30	40	50	60	0

Insert 100
↑

step 2:



Shift Elements to right.

By for loop

$\text{array}[i+1] = \text{array}[i];$

Step 3: Insert Element

0	1	2	3	4	5	6
10	20	100	30	40	50	60

Loop condition:

```
for (int i = 5; i >= 2; i--)
```

decrement

```
{  
    array[6] = array[5];  
}
```

Diagram illustrating the shift of elements during insertion:

- Element at index 5 (50) is shifted to index 6.
- Element at index 4 (40) is shifted to index 5.
- Element at index 3 (30) is shifted to index 4.