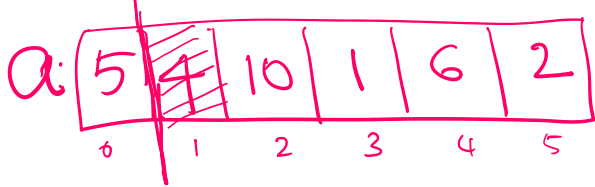


Insertion sort

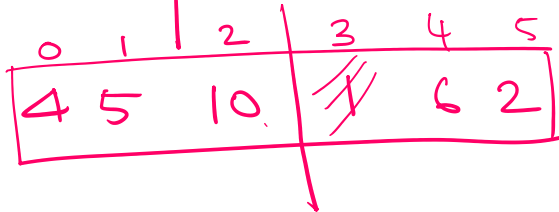
Monday, 20 March 2023 8:03 am

$n = 6$



temp = ~~4~~ 10
= 1

≡ 5 10 1 6 2

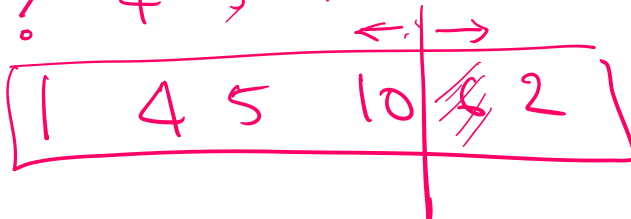


temp = 1

4 5 ? 10 6 2

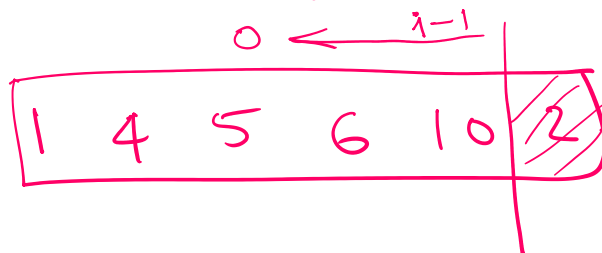
4 ? 5 10 6 2

? 4 5 10 6 2



temp = 6

1 4 5 ? 10 2



temp = 2

1 4 5 6 ? 10

1 4 5 ? 6 10

1 4 ? 5 6 10

1 ? 4 5 6 10

1	?	4	5	6	10
---	---	---	---	---	----

1	2	4	5	6	10
---	---	---	---	---	----

X

```
for ( i = 1; i < n; i++ )
```

```
{
```

```
    temp = a[i]
```

```
    j = i - 1
```

```
    while ( j >= 0 && a[j] > temp )
```

```
    {
```

```
        a[j+1] = a[j]
```

```
        j--
```

```
    }
```

```
    a[j+1] = temp
```

```
}
```

```
i = 1
```

```
temp = a[i]
```

```
→ a[1] = 4
```

0	1	2	3	4	5
5	4	10	1	6	2