



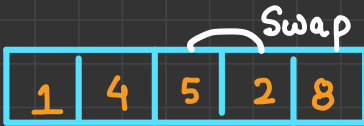
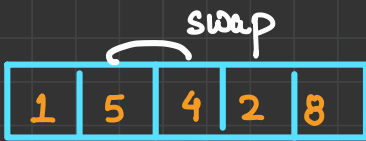
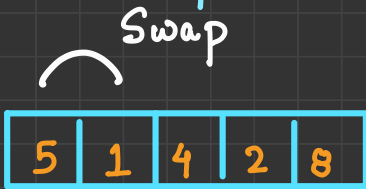
Bubble Sort

Bubble Sort → Sinking Sort → Exchange Sort

Let's understand with an example

↓
With every pass element which come to end is greatest

Pass-1



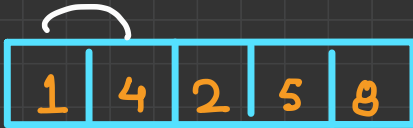
We check next element if it is smaller than previous we swap

The greatest element come to an end

Reason to call it bubble sort

pass-2

No Swap



1	4	2	5	8
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Swap



1	4	2	5	8
---	---	---	---	---

No Swap



1	2	4	5	8
---	---	---	---	---




1	2	4	5	8
---	---	---	---	---

* We don't need to check last element as it is greatest and it is sorted from end

With second pass second element largest element came to end

pass-3

No Swap



1	2	4	5	8
---	---	---	---	---

No Swap



1	2	4	5	8
---	---	---	---	---

We don't need to check further as we already know List is sorted from end

```
for i in range(len(num)):
    for j in range(1, len(num)):
        if num[j] < num[j-1]:
            # Swap
            num[j], num[j-1] = num[j-1], num[j]
```