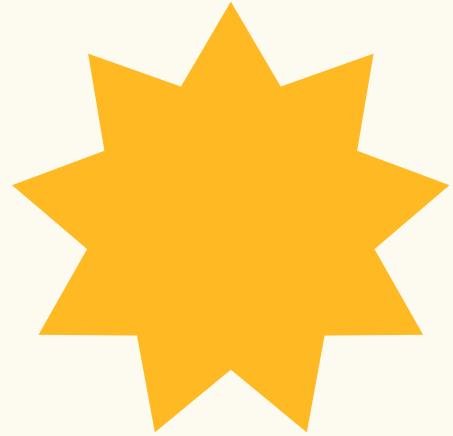


# Bubble sort method



# What is bubble sort method?



- Easy
- Sorting number
- Ascending order
- Useful in real-life

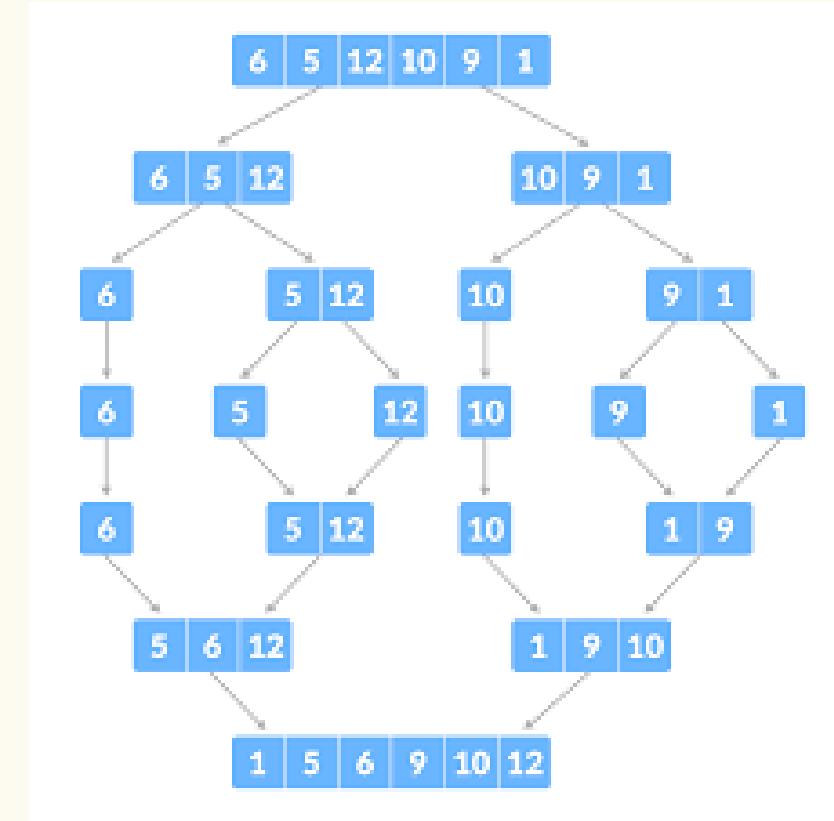
# **Why bubble sort is not used by big systems?**

- Too slow for large data
- Makes unnecessary swaps
- There are more efficient alternatives

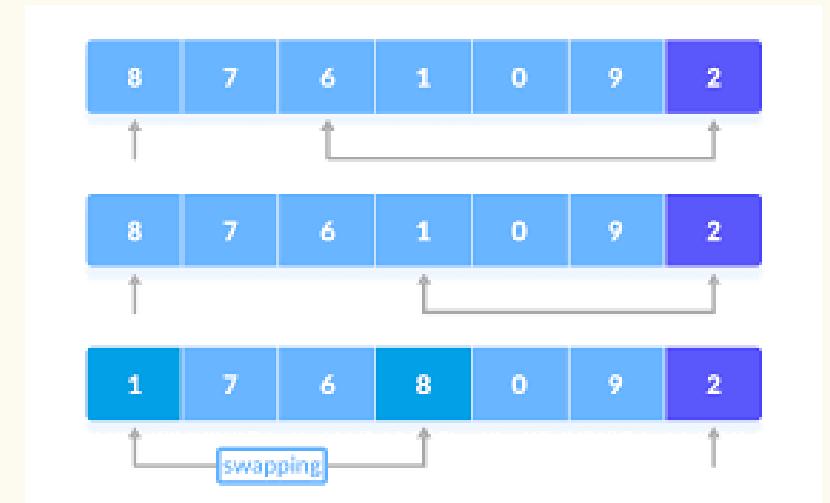
# Two other sorting algorithms.

- Merge Sort
- Quick Sort

**Merge sort splits and merges data very efficiently**



**Quick sort uses a pivot, fast in practice and good for large data**



## Scenario (Real-life example)



Let's imagine, that you are a teacher and your students just wrote the assessment is it easy for you to find high achievers or students who are weak in your subject without sorting?

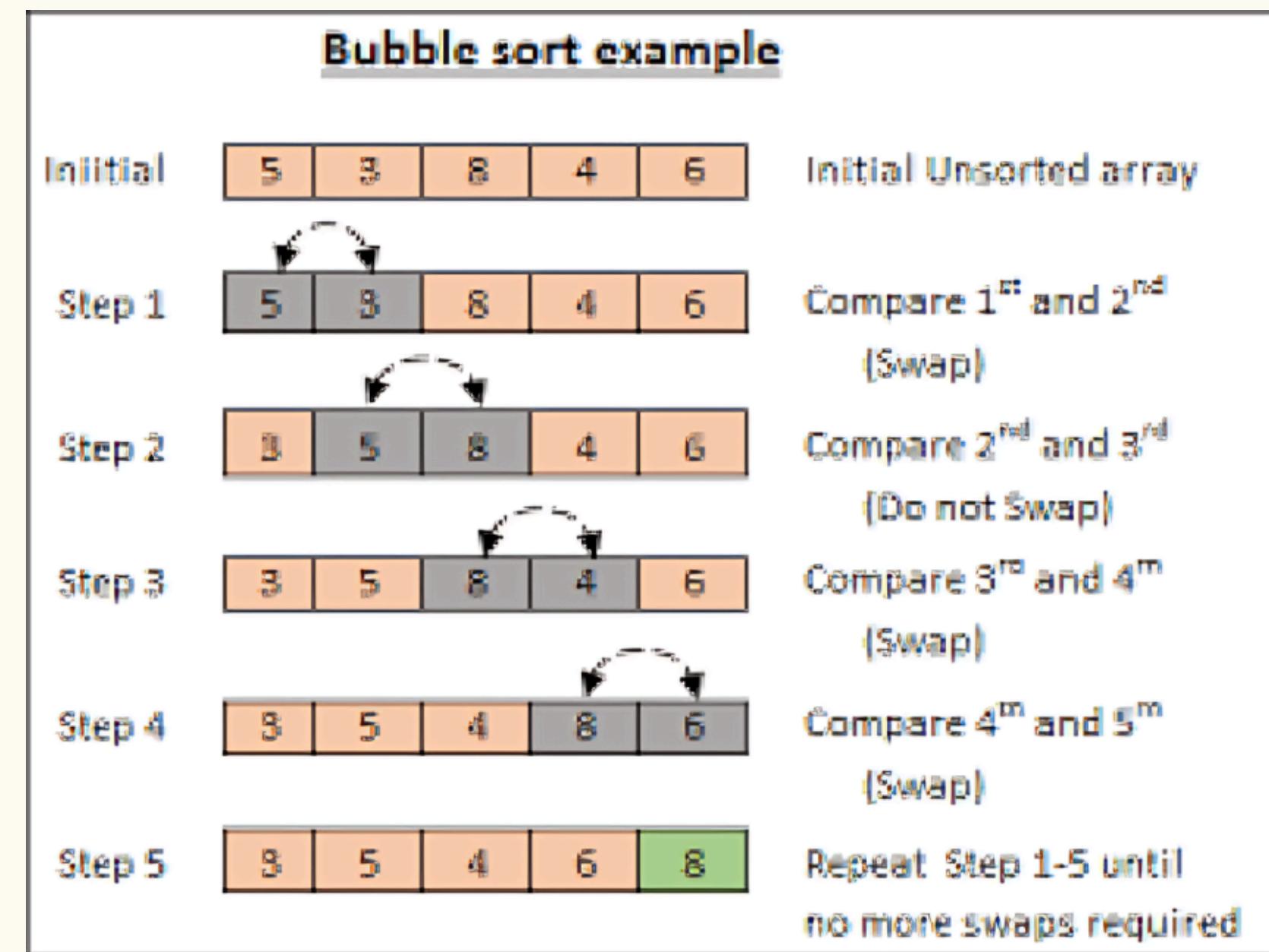
– I don't think so. Firstly, we can do your work easier by sorting all values of the grades by bubble sort method. As a result you can easily see least grades and highest also.

## Scenario (Real-life example)



Now let me show the result of **bubble sort** on example. Your students grades after sorting by **Bubble Sort** : 50,60,70,80,90,99,100. You can say that we can find greatest and least value by min. and max. method and... Yeah! You are right, But by using **Bubble Sort** we can find not only max. value such as 100 in this example but to see that there some other high achievers as 90,99 which we would not notice in min. and max. method.

# Example of work



Thanks for your attention

