**Bubble sort**

9, 5, 4, 1, 6, 10

5 4 1 6 9 10 - end of pass 1

4 1 5 6 9 10 - end of pass 2

1 4 5 6 9 10 - end of pass 3

1 4 5 6 9 10 - end of pass 4

**Quick sort**

9, 5, 4, 1, 6, 10

9, 5, **4**, 1, 6, 10 – pick 4 as pivot

1 | **4** | 9, 5, 6, 10 – sorted with 4 as pivot

1 | 4 | 9, **5**, 6, 10 – 5 as pivot

1 | 4 | **5** | 9, 6, 10 – sorted with 5 as pivot

1 | 4 | 5| 9, **6**, 10 – select 6 as pivot

1 | 4 | 5| **6** | 9, 10 – select 6 as pivot

1 | 4 | 5| 6| **9**, 10 – select 9 as pivot

1 | 4 | 5| 6| 9 | 10 – sorted with 9 as pivot 🡪 all lists are 0 or 1 in length 🡪 finished

1, 4, 5**,** 6**,** 9, 10 – merged