4.

2.

12, 7, 1, 8, 13, 6, 4

Selection Sort

1	**12**, 7, 1, 8, 13, 6, 4	
2	1, **7**, 12, 8, 13, 6, **4**	
3	1, 4, **12**, 8, 13, **6**, 7	
4	1, 4, 6, **8**, 13, 12, **7**	
5	1, 4, 6, 7, **13**, 12, **8**	
6	1, 4, 6, 7, 8, 12, 13	

Bubble Sort   Das nicht

12	7	7	1	1	1	1	1	1	1	1	1	1	1
7	12	1	7	7	7	7	7	6	6	6	6	6	4
1	1	12	12	8	8	8	6	7	7	7	7	4	6
8	8	8	8	12	12	6	8	8	8	8	4	7	7
13	13	13	13	13	6	12	12	12	12	4	8	8	8
6	6	6	6	6	13	13	13	13	4	12	12	12	12
4	4	4	4	4	4	4	4	4	13	13	13	13	13

1	2	3	4	5	6	7	8	9	10	11	12	13	14
12	**12**	1	1	1	1	1	1	1	1	1	1	1	1
7	1	12	12	12	12	**12**	4	4	4	4	4	4	4
1	7	7	7	7	**7**	**4**	12	12	12	**12**	6	6	6
8	8	8	8	**8**	**4**	7	7	7	**7**	**6**	**12**	7	7
13	13	13	**13**	**4**	8	8	8	**8**	**6**	7	**7**	**12**	8
6	6	**6**	**4**	13	13	13	**13**	**6**	8	8	8	**8**	12
4	4	**4**	6	6	6	6	**6**	13	13	13	13	13	13

Insertion Sort

1.   12, 7, 1, 8, 13, 6, 4

2.   7, 12, 1, 8, 13, 6, 4

3.   7, 1, 12, 8, 13, 6, 4

4.   1, 7, 12, 8, 13, 6, 4

5.   1, 7, 8, 12, 13, 6, 4

6.   1, 7, 8, 12, 6, 13, 4

7.   1, 7, 8, 6, 12, 13, 4

8.   1, 7, 6, 8, 12, 13, 4

9.   1, 6, 7, 8, 12, 13, 4

10.   1, 6, 7, 8, 12, 4, 13

11.   1, 6, 7, 8, 4, 12, 13

12.   1, 6, 7, 4, 8, 12, 13

13.   1, 6, 4, 7, 8, 12, 13

14.   1, 4, 6, 7, 8, 12, 13