# Exercise 4-2: Inversion of bubble sort sort_bubble2.c



- Modify sort_bubble1.c to create a program sort_bubble2.c that starts the comparison from the back of the array and replaces the smaller elements in the forward.

ex）

"*" Before the reference element
“<" Before the element to be compared
[Comparison count] and
[Replacement count] are displayed at the beginning of the array.

```
[ 1][ 0] 8 2 7 4 5 6 9 0 <1 *3
[ 2][ 0] 8 2 7 4 5 6 9 <0 *1 3
[ 3][ 0] 8 2 7 4 5 6 <9 *0 1 3
[ 4][ 1] 8 2 7 4 5 <6 *0 9 1 3
[ 5][ 2] 8 2 7 4 <5 *0 6 9 1 3
[ 6][ 3] 8 2 7 <4 *0 5 6 9 1 3
[ 7][ 4] 8 2 <7 *0 4 5 6 9 1 3
[ 8][ 5] 8 <2 *0 7 4 5 6 9 1 3
[ 9][ 6] <8 *0 2 7 4 5 6 9 1 3
[10][ 7] 0 8 2 7 4 5 6 9 <1 *3
[11][ 7] 0 8 2 7 4 5 6 <9 *1 3

     ...

[40][26] 0 1 2 3 4 5 8 6 <7 *9
[41][26] 0 1 2 3 4 5 8 <6 *7 9
[42][26] 0 1 2 3 4 5 <8 *6 7 9
[43][27] 0 1 2 3 4 5 6 8 <7 *9
[44][27] 0 1 2 3 4 5 6 <8 *7 9
[45][28] 0 1 2 3 4 5 6 7 <8 *9
```