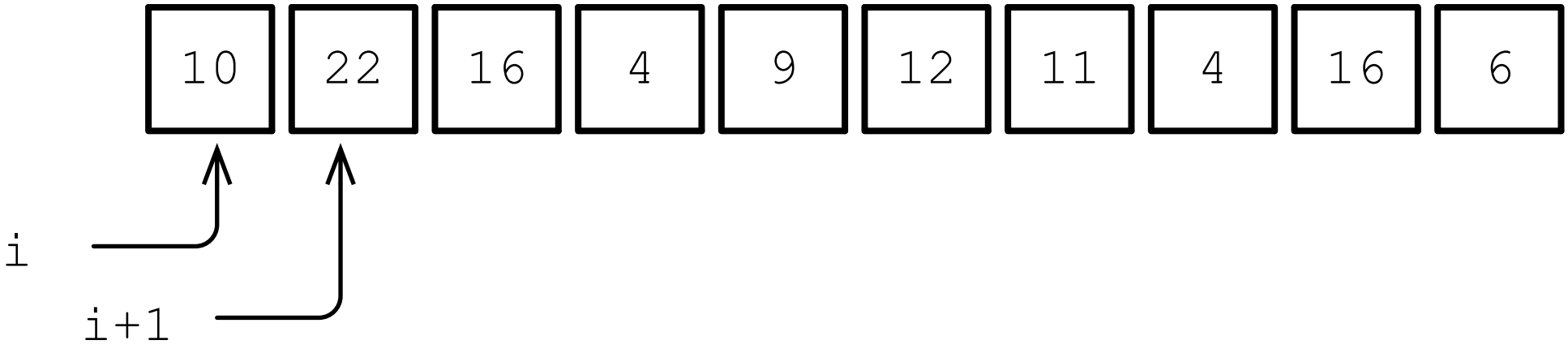
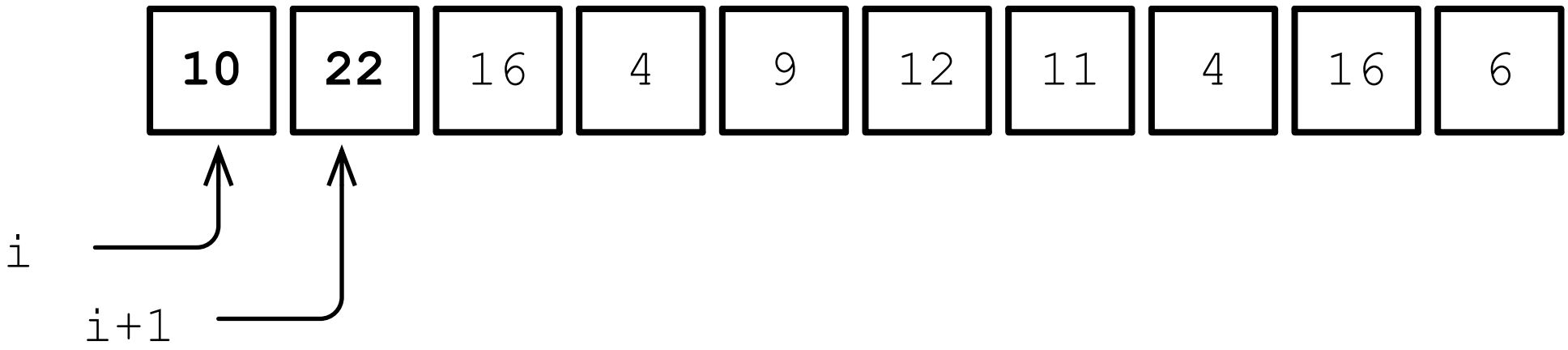
Bubble Sort:

Start at beginning, and look at each pair of neighboring cells. When they are out of order, swap them.

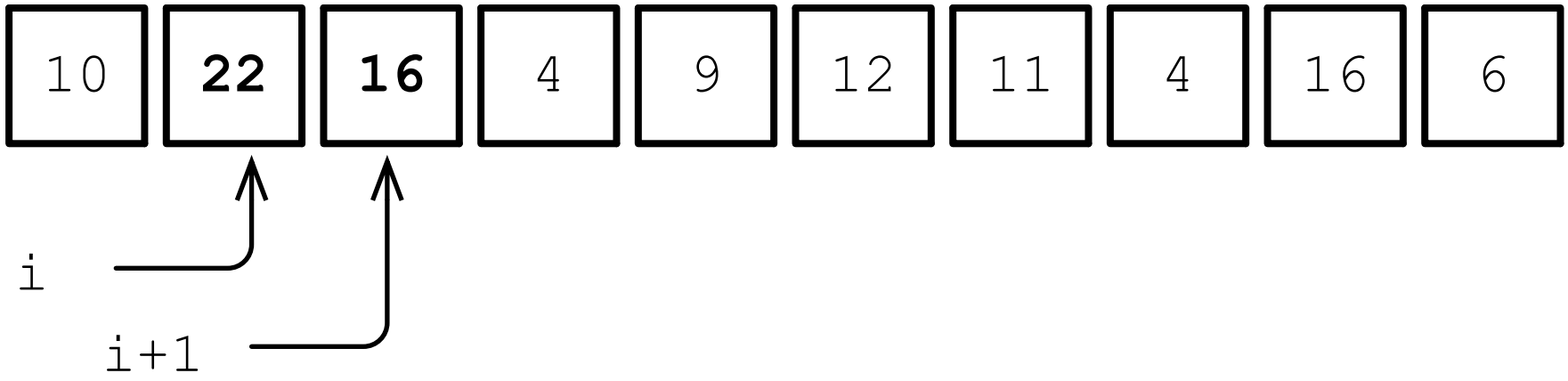
Keep doing this until the whole thing is sorted.



```
i=0

Cell order ok.
```

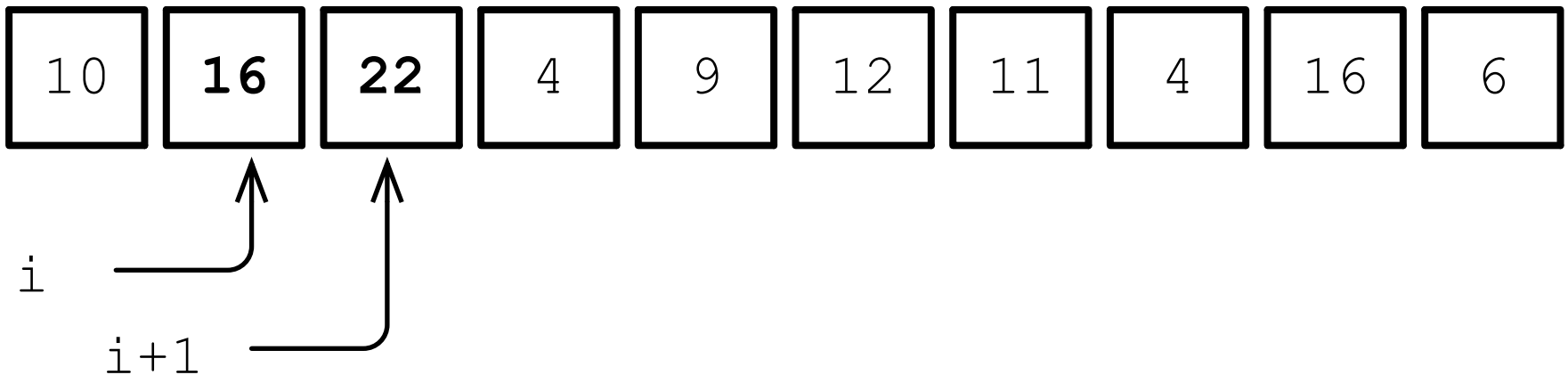


```
i=1

Cell order not ok.

Swap!
```



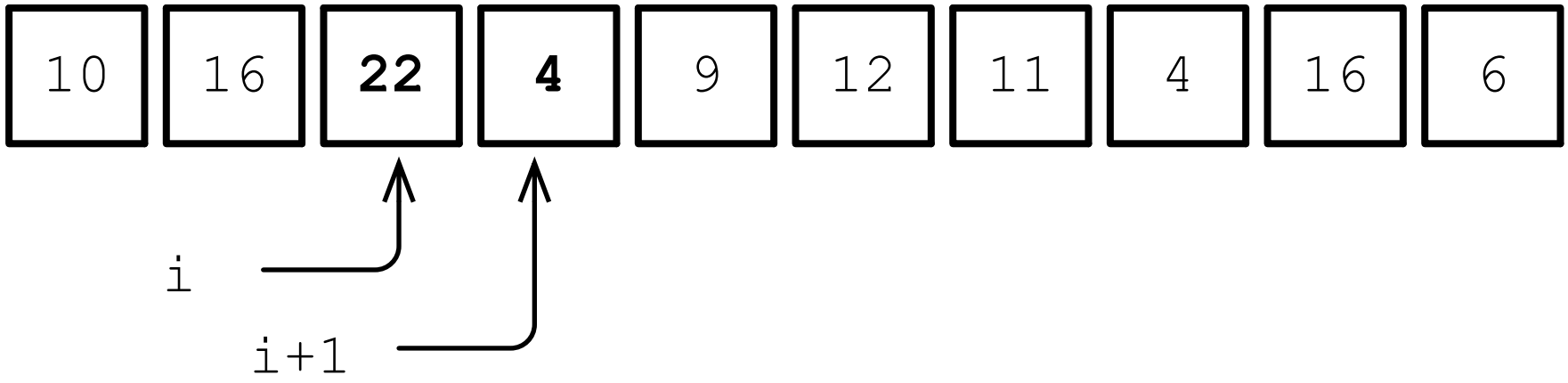
i=1 (after swapping)

Cell order is now correct.



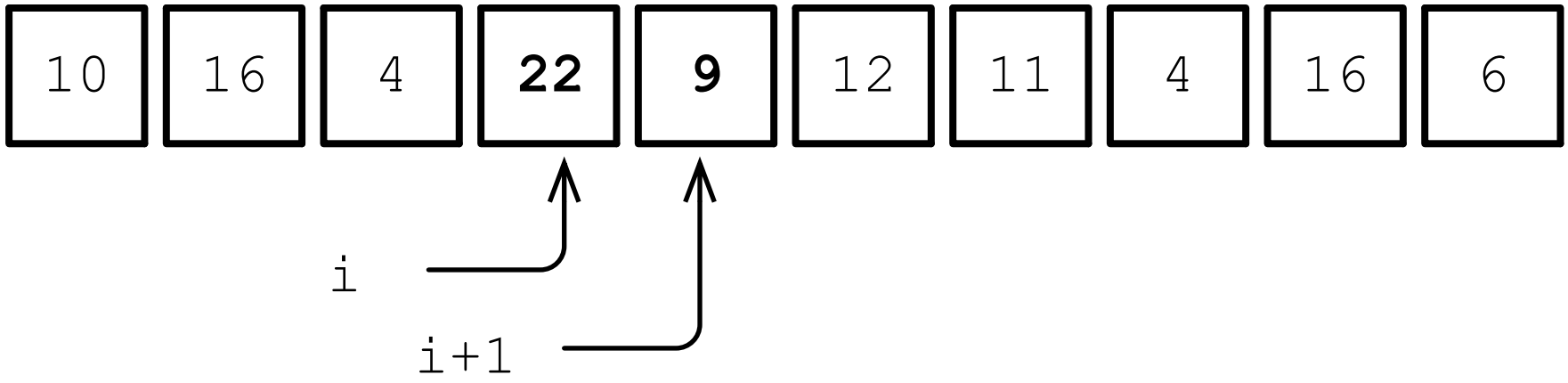
i=2

Wrong order again. Swap!

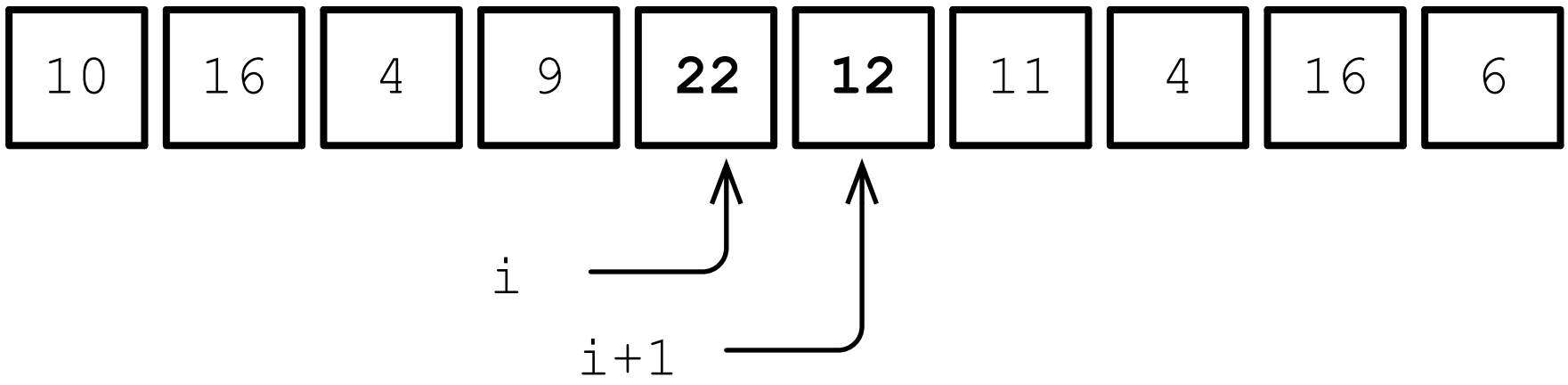


i=3

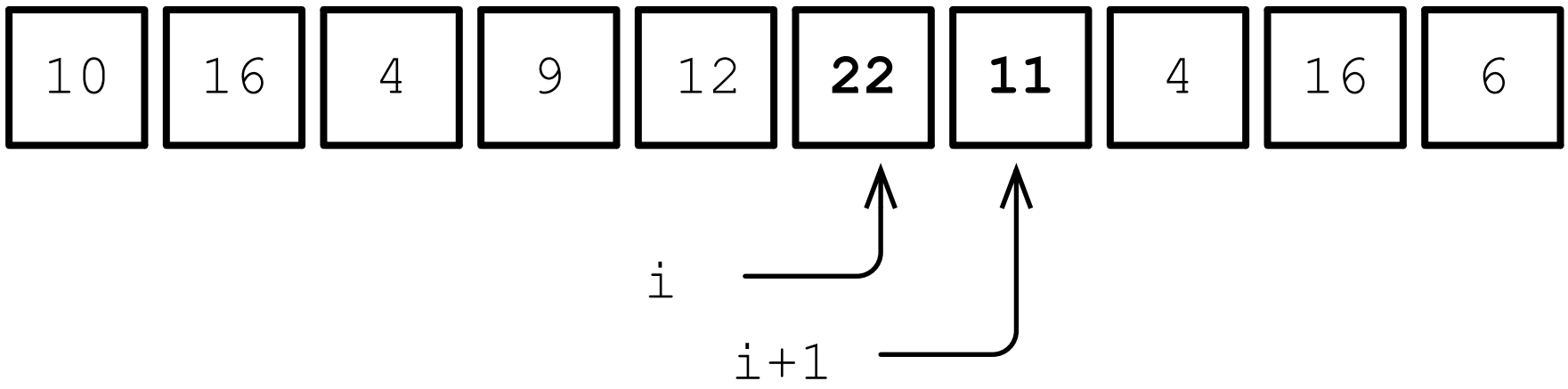
Wrong order again. Swap!



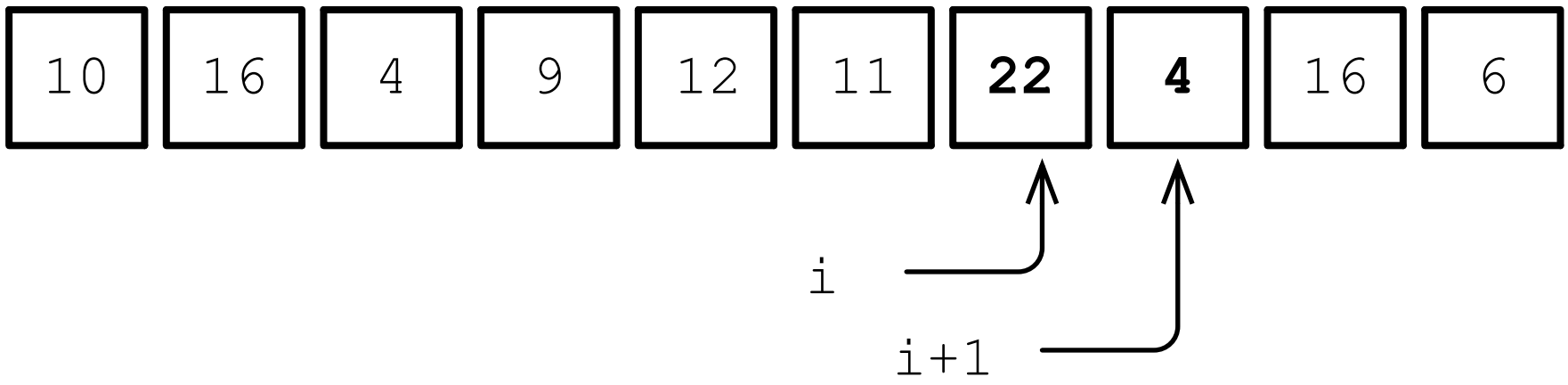
i=4



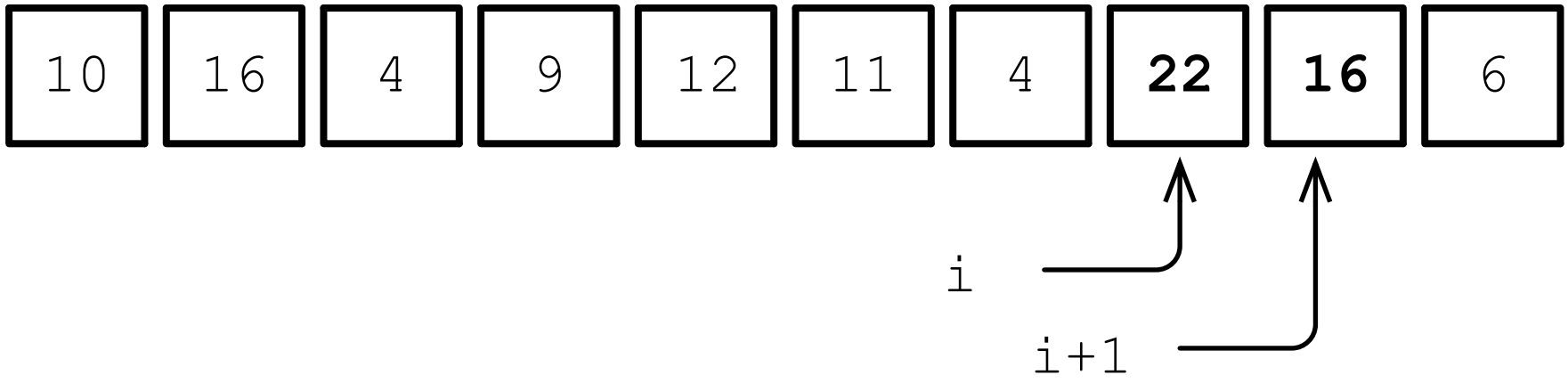
i=5



i=6

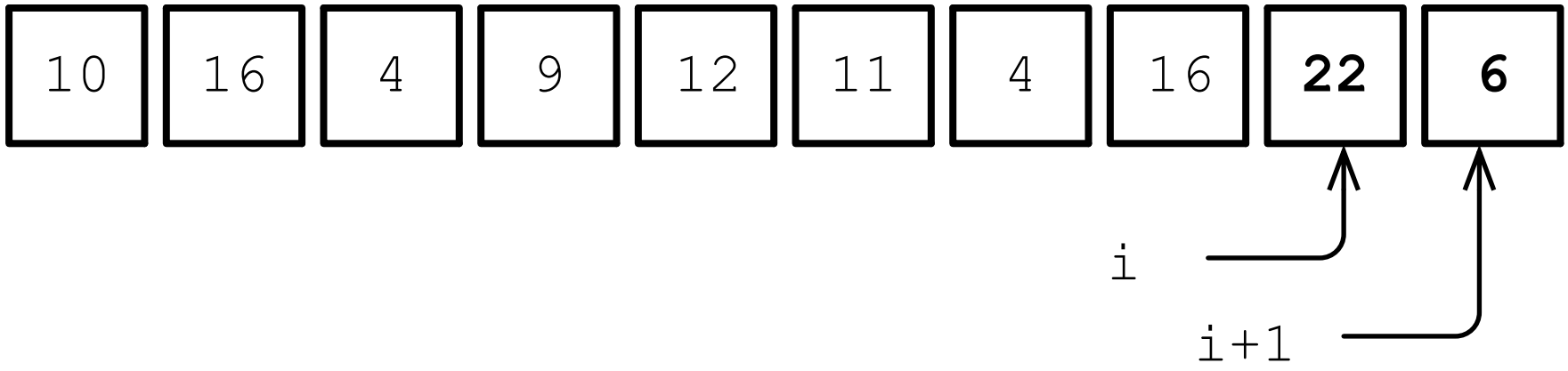


i=7



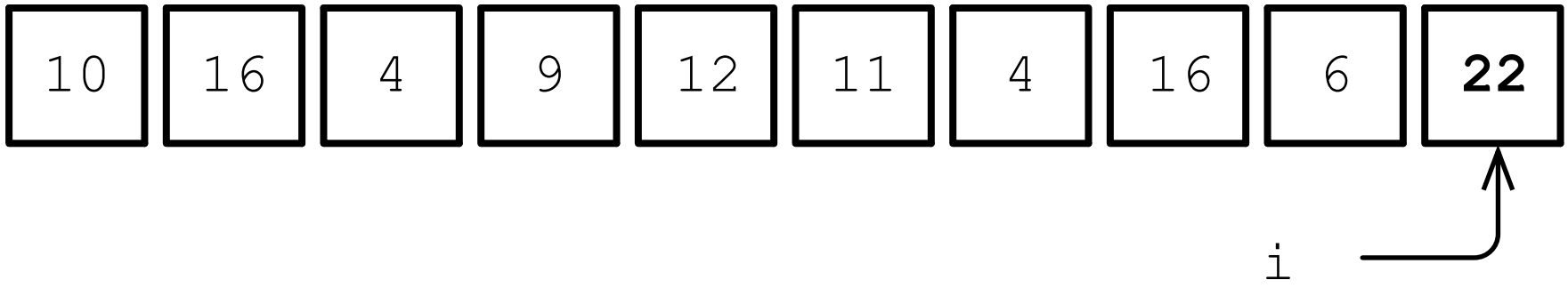
Notice how small values gradually shift left and larger values shift right.

i=8



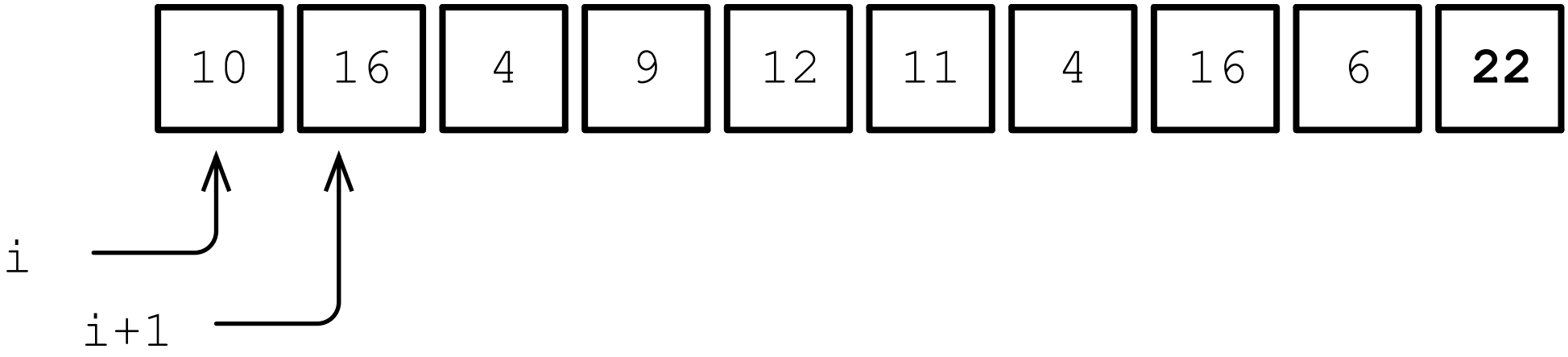
i=9

No more neighbor pairs. Since we swapped at least one time since we set i=0, run through the algorithm one more time.



i=0. A fresh run through the data.

Order is ok.



This process continues until the whole list is in nondecreasing order.

Here's the final output.