

Compare 9 with 12

```
if (current >= values[index - 1]) {
    break;  Is 9 >= 12? No.
}
values [4] [12] [ ] [1] [8]
          0   1   2   3   4
         ↑   ↑
index sorted
9
current
num_vals is 5
```

Copy 12 from Position 1 to Position 2

```
values [4] [ ] [12] [1] [8]
          0   1   2   3   4
         ↑   ↑
index sorted
9
current
num_vals is 5
```

Update and Test Again

```
for (index = sorted - 1; 0 < index;
     index--) {
Is 0 < index? Yes.
values [4] [ ] [12] [1] [8]
          0   1   2   3   4
         ↑   ↑   ↑
index index sorted
9
current
num_vals is 5
```

Compare 9 with 4

```
if (current >= values[index - 1]) {
    break;  Is 9 >= 4? Yes, so break.
}
values [4] [ ] [12] [1] [8]
          0   1   2   3   4
         ↑
index
9
sorted
current
num_vals is 5
```