Copy 9 from Position 1 to Position 2
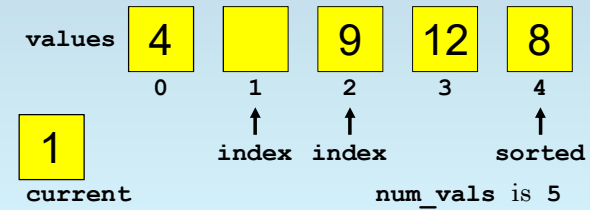
```
values[index] = values[index − 1];
```

values `4` `  ` `9` `12` `8`
      0   1   2   3   4
              ↑   ↑
            index   sorted

`1`

current   num_vals is 5
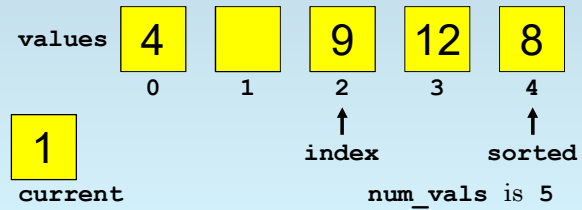
Update and Test Again

```
for (index = sorted − 1; 0 < index;
     index--) {
```
Is 0 < index? Yes.

values `4` `  ` `9` `12` `8`
      0   1   2   3   4
          ↑   ↑   ↑
        index index sorted

`1`

current   num_vals is 5

Compare 1 with 4

```
if (current >= values[index − 1]) {
    break;      Is 1 >= 4?   No.
}
```

values `4` `  ` `9` `12` `8`
      0   1   2   3   4
          ↑   ↑
        index   sorted

`1`

current   num_vals is 5
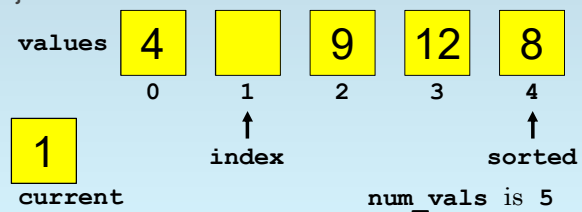
Copy 4 from Position 0 to Position 1

```
values[index] = values[index − 1];
```

values `  ` `4` `9` `12` `8`
      0   1   2   3   4
          ↑   ↑
        index   sorted

`1`

current   num_vals is 5

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