Place New Card in "Blank" Position (**index**)
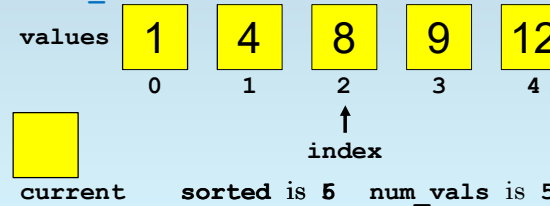
```
values[index] = current;
```


values 1 4 8 9 12
     0   1   2   3   4

↑ **index**

current   **sorted** is 5   **num_vals** is 5
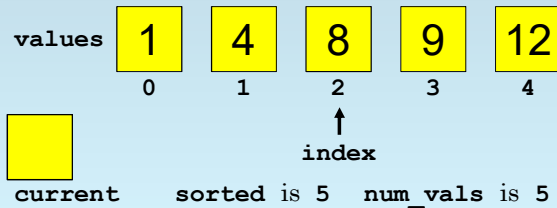
Update and Test Again (First 5 Cards Now Sorted)

```
for (sorted = 2; num_vals >= sorted;
     sorted++) {
```
Is num_vals >= sorted? No. We're done.

values 1 4 8 9 12
     0   1   2   3   4

↑ **index**

current   **sorted** is 5   **num_vals** is 5

Time for Another Think-Pair-Share

As before, let's do a group exercise in lecture.

The process:
1. I give you a problem.
2. You form groups of 3-4 people.
3. Talk about ways to solve the problem.
4. Once enough of the groups have finished, one group volunteers to share their answer.
5. We go over the group's answer together.

The Task: Calculate Average of a List of Numbers

The task…
- Allow a user to enter up to 5 numbers (not -1).
- End the list by typing -1 (not include in list).
- Find and print average of user's numbers.

One half of the class writes **main**.

The other half writes **calc_avg**.

Let's use

```
int32_t calc_avg
  (int32_t const array[], int32_t len);
```

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