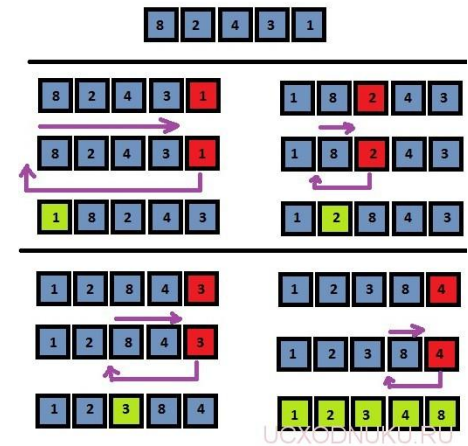


Insertion sort *(you add an element to an already ordered one and put it in its place)*



```
void insertionSort(int arr[], int length) {
    int j;
    int temp;
    for (int i = 0; i < length; i++) { // loop goes through length of array
        sorting numbers
        j = i;
        while (arr[j - 1] > arr[j] && j - 1 >= 0) {
            temp = arr[j - 1];
            arr[j - 1] = arr[j];
            arr[j] = temp;
            j--;
        }
    }
}
```

```
void insertionSort(int arr[], int length) {
    int j;
    int temp;
    for (int i = 0; i < length; i++) { // loop goes through length of array sorting numbers
        j = i;
        while (arr[j - 1] < arr[j] && j - 1 >= 0) {
            temp = arr[j - 1];
            arr[j - 1] = arr[j];
            arr[j] = temp;
            j--;
        }
        printArray(arr, length);
    }
}
```