



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