# Insertion sort with sentinel

1. **Insertion sort with sentinel***.* Develop an implementation of insertion sort that eliminates the j>0 test in the inner loop by first putting the smallest item into position

**Input Format:**

* The first line of the input contains the number of test cases.
* Each test case’s input contains the array values that are separated by spaces.

**Output Format:**

* print the array in the given format after putting the smallest item into position
* print the array after each iteration in the given format
* print the final sorted array in the given format

**Note:** Follow the output format for all testcase

**Sample Input #1:**

**2**

**S O R T E X A M P L E**

**E A S Y Q U E S T I O N**

**Sample Output #1:**

**[A, S, O, R, T, E, X, E, M, P, L]**

**[A, O, S, R, T, E, X, E, M, P, L]**

**[A, O, R, S, T, E, X, E, M, P, L]**

**[A, O, R, S, T, E, X, E, M, P, L]**

**[A, E, O, R, S, T, X, E, M, P, L]**

**[A, E, O, R, S, T, X, E, M, P, L]**

**[A, E, E, O, R, S, T, X, M, P, L]**

**[A, E, E, M, O, R, S, T, X, P, L]**

**[A, E, E, M, O, P, R, S, T, X, L]**

**[A, E, E, L, M, O, P, R, S, T, X]**

**[A, E, E, L, M, O, P, R, S, T, X]**

**[A, E, E, S, Y, Q, U, I, S, T, N, O]**

**[A, E, E, S, Y, Q, U, I, S, T, N, O]**

**[A, E, E, S, Y, Q, U, I, S, T, N, O]**

**[A, E, E, S, Y, Q, U, I, S, T, N, O]**

**[A, E, E, Q, S, Y, U, I, S, T, N, O]**

**[A, E, E, Q, S, U, Y, I, S, T, N, O]**

**[A, E, E, I, Q, S, U, Y, S, T, N, O]**

**[A, E, E, I, Q, S, S, U, Y, T, N, O]**

**[A, E, E, I, Q, S, S, T, U, Y, N, O]**

**[A, E, E, I, N, Q, S, S, T, U, Y, O]**

**[A, E, E, I, N, O, Q, S, S, T, U, Y]**

**[A, E, E, I, N, O, Q, S, S, T, U, Y]**