

Aims and Objective:

Demonstrate the working knowledge of simple sorting algorithm in Python

1. Write a program to sort a list of integers using bubble sort

Case	Input	Output
1	5 2 3 1 9 8	1 2 3 5 8 9
2	4 4 6 2 1 1 7	1 1 2 4 4 6 7

2. Write a program that read N tuples from console and sort the tuples using the bubble sort you have written in 1. The first input of the program is the integer N, followed by N lines of strings. Each string contains a list of numbers in the tuples. Sort the tuple based on the first entity, then second and third.

Case	Input	Output
1	3 6 5 3 2 15 7 4 8 4	2 15 7 4 8 4 6 5 3
2	4 2 2 6 2 1 7 1 0 9 1 5 10	1 0 9 1 5 10 2 1 7 2 2 6

3. Can you write the Bubble sort in (1) using recursion instead of nested for loop?.