START

Read T[i]

i := 0

i < howMany

NO

Write T [i]

YES

STOP

i := i + 1

temp = T[i]
j = i + 1

NO

j < howMany

j := j + 1

YES

T [j] < temp

NO

YES

T[i] = T[j]
T[j] = temp
temp = T[i]

Specification

Input:

T[i] – i-th element of an array **T** composed of **n** random numbers
i, j – loop numeric variables (positive integers)
howMany – the size of the collection to be sorted

Output:

T [i] – i-th element of an array **T** composed of **n** integers ordered in ascending order

Step list

1. START
2. Read array T [i]
3. Start at i := 0, end at i := howMany – 1, follow **the steps 4 – 7.**
4. temp := T [i]
5. j := i + 1
6. While j < howMany – 1, follow **steps 6.1 or 6.2**.
    6.1. If T [j] < temp, follow **the steps 6.1.1 – 6.1.4**. In the other way go to **step 6.2.**
        6.1.1. T [i] = T [j]
        6.1.2. T [j] = temp
        6.1.3. temp = T [i]
        6.1.4. j := j + 1
    6.2. j := j + 1
7. i := i + 1
8. Write T [i]
9. STOP