Introduction to Python

Sorting

Let A be a list with len(a)=n.

In class we discussed a sorting algorithm which, on iteration i, swaps the i\textsuperscript{th} smallest element into position A[i].

So on the 0\textsuperscript{th} iteration the algorithm finds the smallest element in A and puts it in A[0]. On the 1\textsuperscript{st} iteration the algorithm searches the list from A[1] through A[n-1] and puts it into A[1] … and so on.

Write a Python program to implement this algorithm.