

Data Structures
CS 246 - 040
Quiz 05 Solutions

- a. The ascending order sorting algorithm that finds the minimum value of the unsorted portion of a collection and places it at the end of the sorted portion is called

Solution:

a selection sort

- b. The ascending order sorting algorithm that swaps adjacent elements of the unsorted portion of a collection until the maximum value is moved to the beginning of the sorted portion is called

Solution:

a bubble sort

- c. The ascending order sorting algorithm that swaps adjacent elements of the sorted portion of a collection until the element is in the correct position of the sorted portion is called

Solution:

a insertion sort

- d. The stack data structure follows the principle _____, which is abbreviated _____.

Solution:

first in last out; FIFO

- e. Provide the typical names of the methods of a stack.

Solution:

push(), pop(), top(), isempty()