S. V. National Institute of Technology, Surat
Computer Engineering Department
Data Structure
Tutorial-3

Create an array named AUTO which stores random elements ranging from 250-350 which denotes the number of automobiles sold during the last 30 years.

a) Write an algorithm to

i) Insert one element in the beginning of an array and print the original and modified array.

ii) Insert one element in the end of an array and print the original and modified array.

iii) Insert one element at the 'pth' position of an array and print the original and modified array.

b) Write an algorithm to

i) Delete an element from the beginning of an array and print the original and modified array.

ii) Delete the last element of an array and print the original and modified array.

iii) Delete the element at the 'pth' position of an array and print the original and modified array.

c) Write an algorithm to update the value at the 'pth' position with new value.

d) Write an algorithm to print the index during which more than 300 automobiles were sold.

e) Write an algorithm to print each index and corresponding number of automobiles sold.