(a) Write a program that interchanges the odd and even elements of an array.

(b) Write a program to copy the contents of one array into another in the reverse order.

(c) Twenty-five numbers are entered from the keyboard into an array. The number to be searched is entered through the keyboard by the user. Write a program to find if the number to be searched is present in the array and if it is present, display the number of times it appears in the array.

(d) Twenty-five numbers are entered from the keyboard into an array. Write a program to find out how many of them are positive, how many are negative, how many are even and how many odd.

(e) If an array **arr** contains **n** elements, then write a program to check if **arr[0] = arr[n-1], arr[1] = arr[n - 2]** and so on.

(f) Write a program using pointers to find the smallest number in an array of 25 integers.

(g) Write a program which performs the following tasks:

- Initialize an integer array of 10 elements in **main( )**
- Pass the entire array to a function **modify( )**
- In **modify( )** multiply each element of array by 3
- Return the control to **main( )** and print the new array elements in **main( )**

(h) Implement the Insertion Sort algorithm shown in Figure 13.3 on a set of 25 numbers.

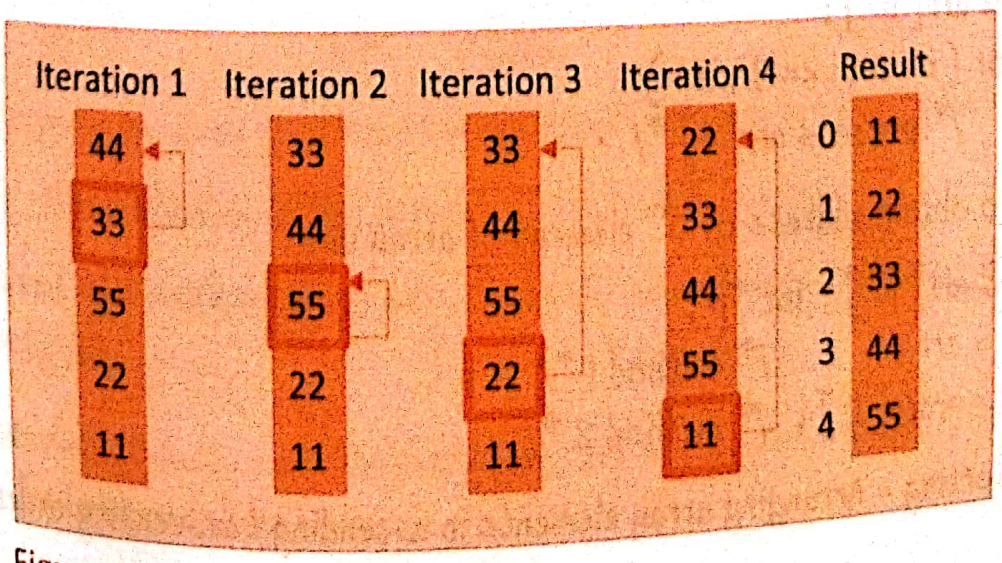

Figure 13.3