

3. An integer array contains the values [ 12, 7, 4, 5, 13, 6 ]. The contents of the array are to be sorted into ascending order.
- (a) During each iteration of an insertion sort, values in the array are compared and the position of the values may be altered.

Values in array at start of sort [ 12, 7, 4, 5, 13, 6 ]

Resultant array after first iteration [ 7, 12, 4, 5, 13, 6 ]

Write down the resultant array after the second iteration of the insertion sort has been completed.

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- (b) During each pass of a bubble sort, values in the array are compared and the position of the values may be altered.

Values in array at start of sort [ 12, 7, 4, 5, 13, 6 ]

Resultant array after first pass [ 7, 4, 5, 12, 6, 13 ]

Write down the resultant array after the second pass of the bubble sort has been completed.

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