6. Writing a program in Java implementing the insertion sort algorithm

```
package OnlinePractice4;
class InsertionSort {
      void sort(int arr[])
      {
            int n = arr.length;
            for (int i = 1; i < n; ++i) {</pre>
                  int key = arr[i];
                  int j = i - 1;
                  while (j >= 0 && arr[j] > key) {
                        arr[j + 1] = arr[j];
                         j = j - 1;
                  arr[j + 1] = key;
            }
      static void printArray(int arr[])
      {
            int n = arr.length;
            for (int i = 0; i < n; ++i)</pre>
                  System.out.print(arr[i] + " ");
            System.out.println();
      }
      public static void main(String args[])
      {
            int arr[] = { 12, 111, 1, 5, 6 };
```