

```

1 import java.util.Arrays;
2 import java.util.List;
3 import java.util.PriorityQueue;
4
5 class Main
6 {
7     public static int findKthSmallest(List<Integer> I, int x)
8     {
9         PriorityQueue<Integer> pq = new PriorityQueue<>(I);
10
11         while (--x > 0) {
12             pq.poll();
13         }
14
15         return pq.peek();
16     }
17
18     public static void main(String[] args)
19     {
20         List<Integer> I = Arrays.asList(1, 10, 5, 2, 17, 11);
21         int x = 4;
22         System.out.println("the 4th smallest element in the array is " +
23             findKthSmallest(I, x));
24         System.out.println("Vamsi.K 5182474 Java-2");
25     }
26 }

```

the 4th smallest element in the array is 10
Vamsi.k 51834764 Java-2

Process finished.
1.A.

// Vamsi

```
1  import java.util.*;
2  class Pattern{
3      public static void main(String args[]){
4          Scanner sc=new Scanner(System.in);
5          System.out.println("Enter Array Size:");
6          int n=sc.nextInt();
7          for(int i=1;i<n+2;i++){
8              for(int j=1;j<i;j++){
9                  System.out.print(j+",");
10             }
11             System.out.print(" ");
12         }
13         System.out.println("\nVamsi.K 51834764 Java-2");
14     }
15 }
```

Enter Array Size:

4
1, 1,2, 1,2,3, 1,2,3,4,
Vamsi.K 51834764 Java-2

Process finished.

2.A.

```
2 import java.util.*;
3 interface Laptop{
4     abstract public void price();
5     abstract public void company();
6     abstract public void ram();
7 }
8 class Your_name implements Laptop{
9     public void price(){
10         System.out.println("80000");
11     }
12     public void company(){
13         System.out.println("HP");
14     }
15     public void ram(){
16         System.out.println("8Gb RAM");
17     }
18     public static void main(String[] args){
19         Your_name o=new Your_name();
20         o.price();
21         o.company();
22         o.ram();
23         System.out.println("Vamsi.k 51834764 Java-2");
24     }
25 }
```

80000

HP

8Gb RAM

Vamsi.k 51834764 Java-2

3.A.

Process finished.

```

1  import java.util.*;
2
3  public class Main {
4
5      static void reverseWords(String str)
6      {
7          Stack<Character> st=new Stack<Character>();
8
9          for (int i = 0; i < str.length(); ++i) {
10             if (str.charAt(i) != ' ')
11                 st.push(str.charAt(i));
12
13             else {
14                 while (st.empty() == false) {
15                     System.out.print(st.pop());
16                 }
17                 System.out.print(" ");
18             }
19         }
20         while (st.empty() == false) {
21             System.out.print(st.pop());
22         }
23     }
24     public static void main(String[] args)
25     {
26         String str = "Hello World";
27         reverseWords(str);
28         System.out.println("Vamsi.K 51834764 Java-2");
29     }
30 }

```


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5.A.