



Main.java

Output



```
1 import java.util
    .InputMismatchException;
2 import java.util.Scanner;
3
4 public class UserInterface {
5     public String
        getDuplicateElement() {
6         Scanner scanner = new
            Scanner(System.in);
7         try {
8             System.out.println
                ("Enter the size of
                 an array");
9             int size = scanner
                .nextInt();
10            if (size <= 0) {
11                return "Array size
                    should be
                    positive";
12            }
13
14            int[] array = new
                int[size];
15            System.out.println
                ("Enter the
                 elements").
```

Run



Main.java

Output



```
15 System.out.println
    ("Enter the array
    elements");
16 for (int i = 0; i <
    size; i++) {
17     array[i] = scanner
        .nextInt();
18 }
19
20 System.out.println
    ("Enter the
    position of the
    element to be
    replicated");
21 int position = scanner
    .nextInt();
22 if (position < 0 ||
    position >= size) {
23     return "Array index
        is out of range";
24 }
25
26 return "The array
    elements are " +
    getArrayEle
    (array) + " " +
```

Run



Main.java

Output



```
                (array) + " " +
                array[position];
27 } catch
    (InputMismatchException
    e) {
28     return "Input was not
        in the correct
        format";
29 } catch
    (NegativeArraySizeExcep
    tion e) {
30     return "Array size
        should be positive"
        ;
31 } catch
    (ArrayIndexOutOfBoundsException e) {
32     return "Array index is
        out of range";
33 }
34 }
35
36 private String getArrayElements
    (int[] array) {
37     StringBuilder result
        = new StringBuilder();
```

Run



Main.java

Output



```
32         return "Array index is  
           out of range";  
33     }  
34 }  
35  
36 private String getArrayElements  
   (int[] array) {  
37     StringBuilder result = new  
       StringBuilder();  
38     for (int num : array) {  
39         result.append(num  
           ).append(" ");  
40     }  
41     return result.toString();  
42 }  
43  
44 public static void main  
   (String[] args) {  
45     UserInterface ui = new  
       UserInterface();  
46     System.out.println(ui  
       .getDuplicateElement  
       ());  
47 }  
48 }  
49 |
```

Run

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Main.java

Output



```
java -cp /tmp/OZqrtUnRnx/UserInterface
```

Enter the size of an array

3

Enter the array elements|

5

35

45

Enter the position of the element to be
replicated

5

Array index is out of range

=== Code Execution Successful ===