



string rotation.java



Saved

```
1
2 // Answer for question 2
3 import java.util.Scanner;
4 public class Main {
5     public static void main(String[] args) throws
6         Scanner sc= new Scanner(System.in);
7         System.out.println("B.JayaLakshmi\nSAP ID:5
8         System.out.println("Please enter original S
9         String input = sc.nextLine();
10        System.out.println("Please enter rotation of
11        String rotation = sc.nextLine();
12        if (checkRotatation(input, rotation)) {
13            System.out.println(input + " and " + ro
14        }
15        else {
16            System.out.println("Sorry, they are not rota
17        }
18        sc.close();
19    }
20    public static boolean checkRotatation(Str
21        if (original.length() != rotation.length
22        return false;
23    }
24    String concatenated = original + origina
25    if (concatenated.indexOf(rotation) != -1
26        return true;
27    }
28    return false;
29    }
30    }
31
```



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Please enter original String

abc

Please enter rotation of String

bca

abc and bca are rotation of each other

Process finished.

|



bubble Sort.java



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```
1
2 //Answer for question 5
3
4
5 import java.util.Arrays;
6
7 class Main
8 {
9     public static void swap(int[] arr, int a, int b)
10    {
11        int temp = arr[a];
12        arr[a] = arr[b];
13        arr[b] = temp;
14    }
15
16    public static void bubbleSort(int[] arr, int x)
17    {
18        for (int a = 0; a < x - 1; a++) {
19            if (arr[a] > arr[a + 1]) {
20                swap(arr, a, a + 1);
21            }
22        }
23        if (x - 1 > 1) {
24            bubbleSort(arr, x - 1);
25        }
26    }
27
28    public static void main(String[] args)
29    {
30        int[] arr = { 4, -6, 9, 7, -3 };
31
32        bubbleSort(arr, arr.length);
33
34        System.out.println("B.JayaLakshmi\nSAP II");
35        System.out.println(Arrays.toString(arr));
36    }
37 }
```



```
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[-6, -3, 4, 7, 9]
```

```
Process finished.
```