

3. Write a program in Java to find the sum of n number of elements in the range of L and R where $0 \leq L \leq R \leq n-1$

```
package com.assin.solution;
```

```
public class Rnageex {
```

```
    public static int sumInRange(int[] arr, int L, int R) {
```

```
        if (L < 0 || R >= arr.length || L > R) {
```

```
            throw new IllegalArgumentException("Invalid range");
```

```
        }
```

```
        int sum = 0;
```

```
        for (int i = L; i <= R; i++) {
```

```
            sum += arr[i];
```

```
        }
```

```
        return sum;
```

```
    }
```

```
    public static void main(String[] args) {
```

```
        int[] arr = { 3, 7, 2, 5, 8, 9 };
```

```
        int L = 2;
```

```
        int R = 4;
```

```
        int result;
```

```
        if (L < 0 || R >= arr.length || L > R) {
```

```
            System.out.println("Invalid range");
```

```
        } else {
```

```
            result = sumInRange(arr, L, R);
```

```
            System.out.println("Sum of elements in the range [" + L + ", " + R + "] is: " + result);
```

```
        }
```

```
    }
```

```
}
```