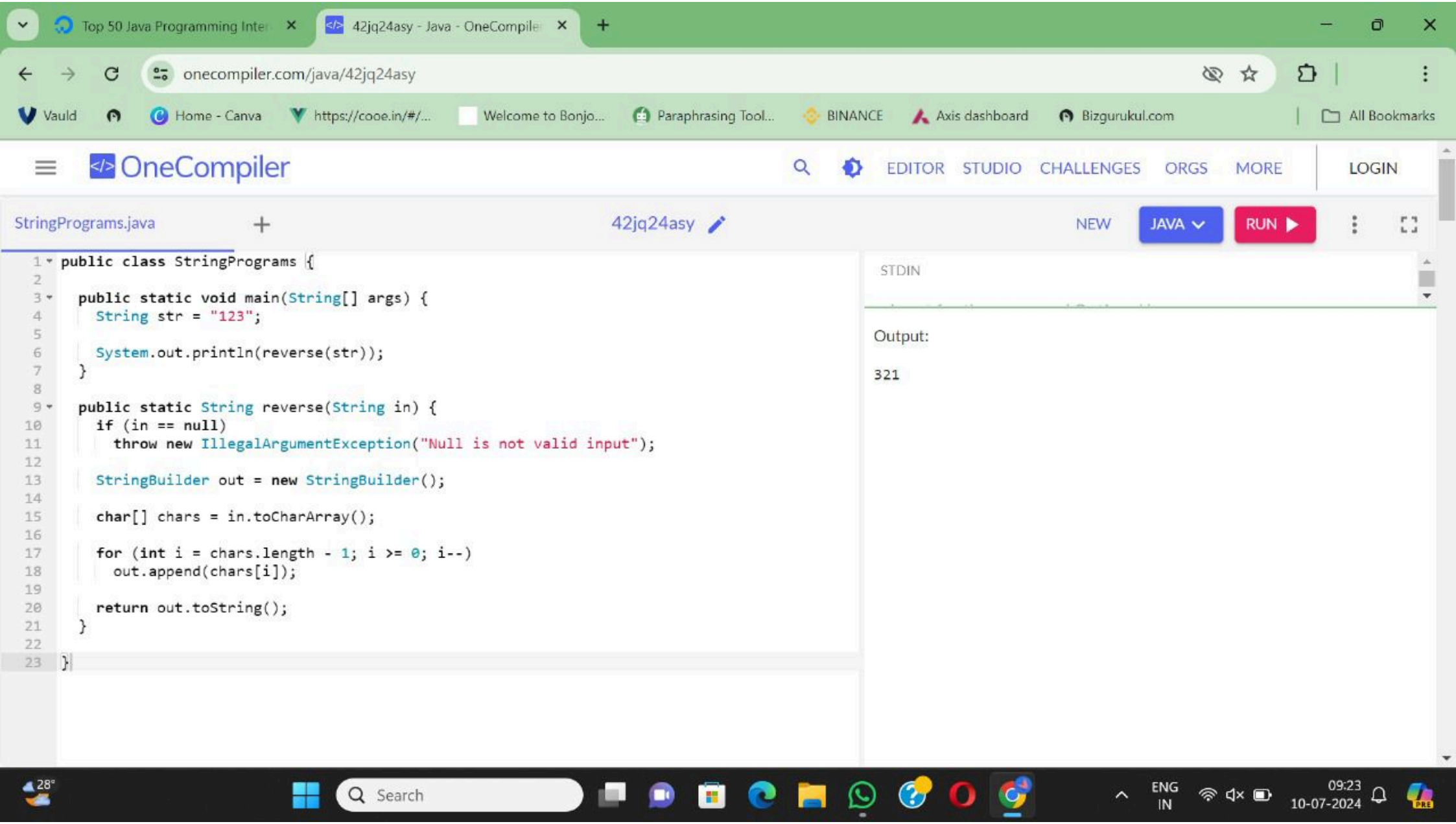
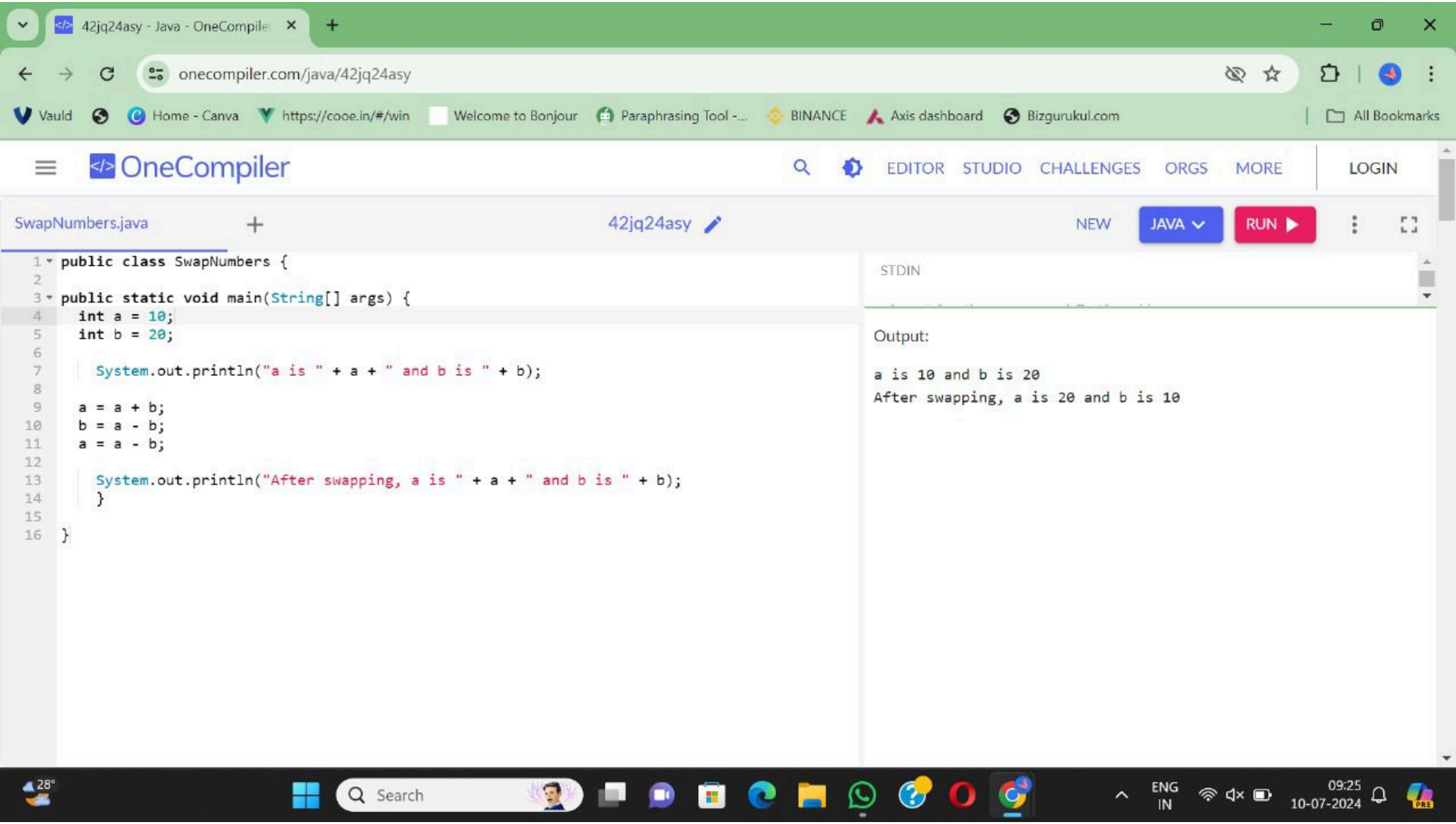



```java
public class StringPrograms {

  public static void main(String[] args) {
    String str = "123";

    System.out.println(reverse(str));
  }

  public static String reverse(String in) {
    if (in == null)
      throw new IllegalArgumentException("Null is not valid input");

    StringBuilder out = new StringBuilder();

    char[] chars = in.toCharArray();

    for (int i = chars.length - 1; i >= 0; i--)
      out.append(chars[i]);

    return out.toString();
  }

}
```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ORGS
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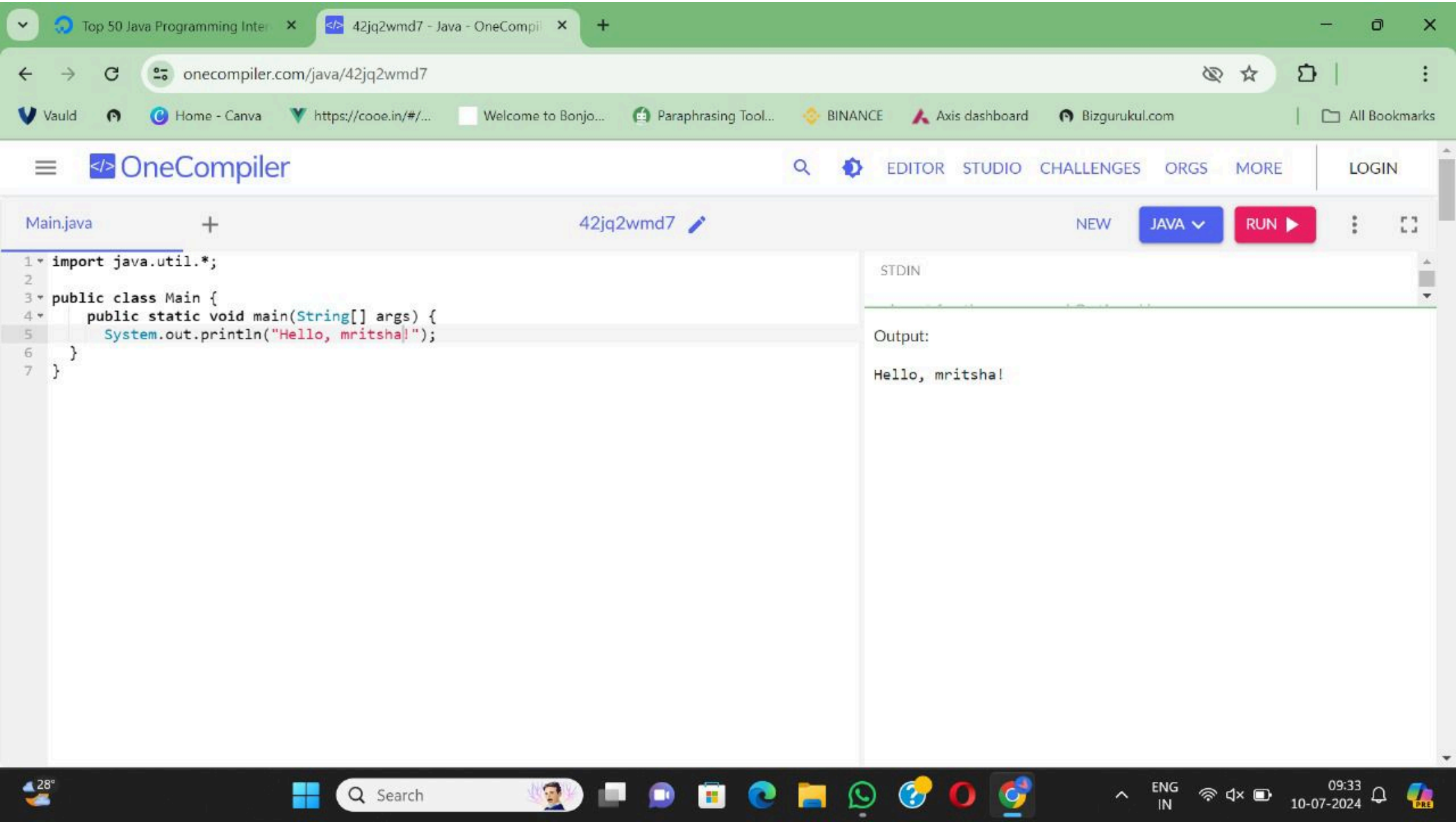
LOGIN
SwapNumbers.java
42jq24asy
NEW
JAVA
RUN
1 public class SwapNumbers {
2
3 public static void main(String[] args) {
4 int a = 10;
5 int b = 20;
6
7 System.out.println("a is " + a + " and b is " + b);
8
9 a = a + b;
10 b = a - b;
11 a = a - b;
12
13 System.out.println("After swapping, a is " + a + " and b is " + b);
14 }
15
16 }
STDIN
Output:
a is 10 and b is 20
After swapping, a is 20 and b is 10
28°
Search
ENG
IN
09:25
10-07-2024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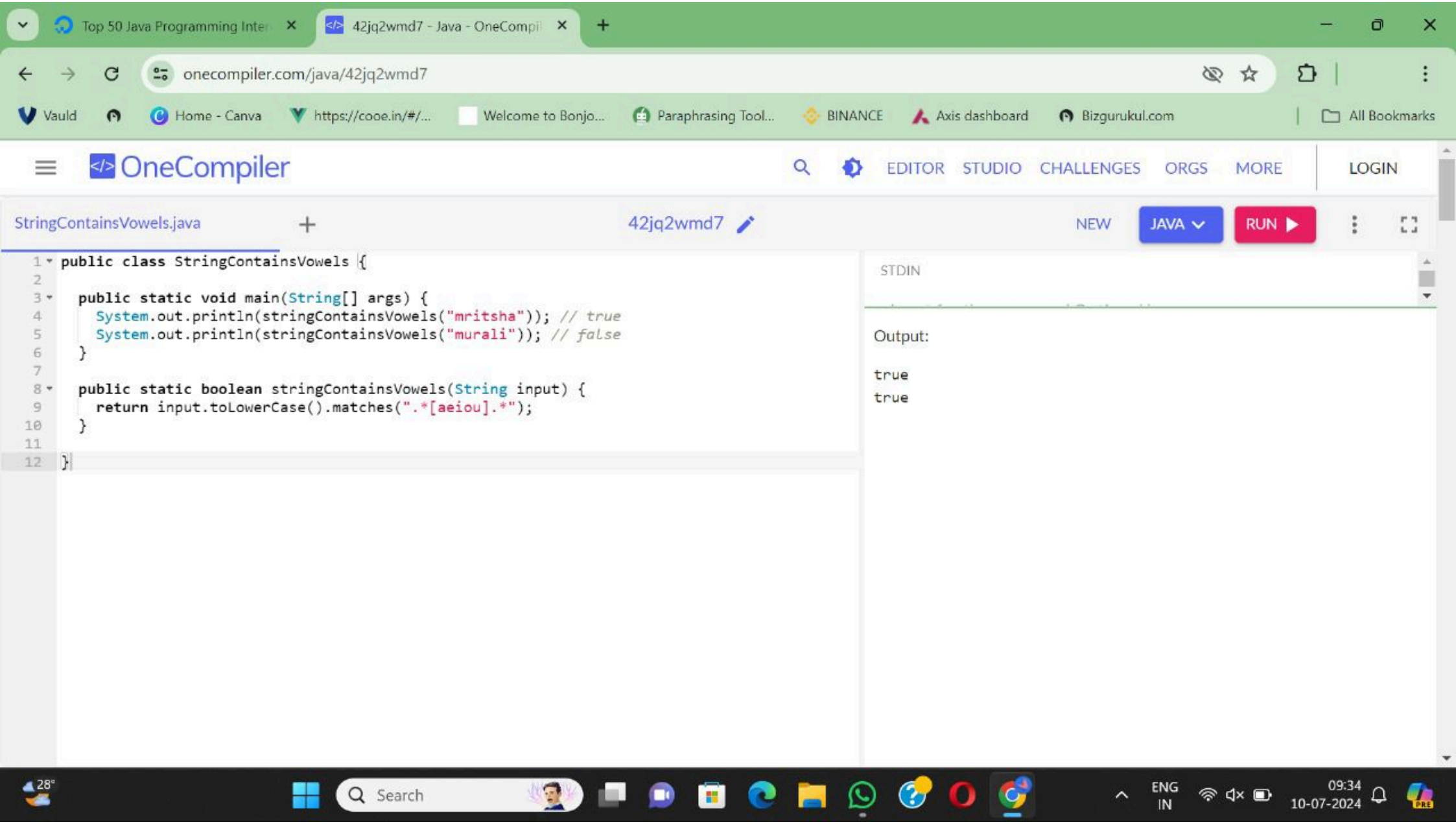
MORE
LOGIN
Main.java
42jq2wmd7
NEW
JAVA
RUN
1 import java.util.*;
2
3 public class Main {
4 public static void main(String[] args) {
5 System.out.println("Hello, mritsha!");
6 }
7 }
STDIN
Output:
Hello, mritsha!
28°
Search
ENG
IN
09:33
10-07-2024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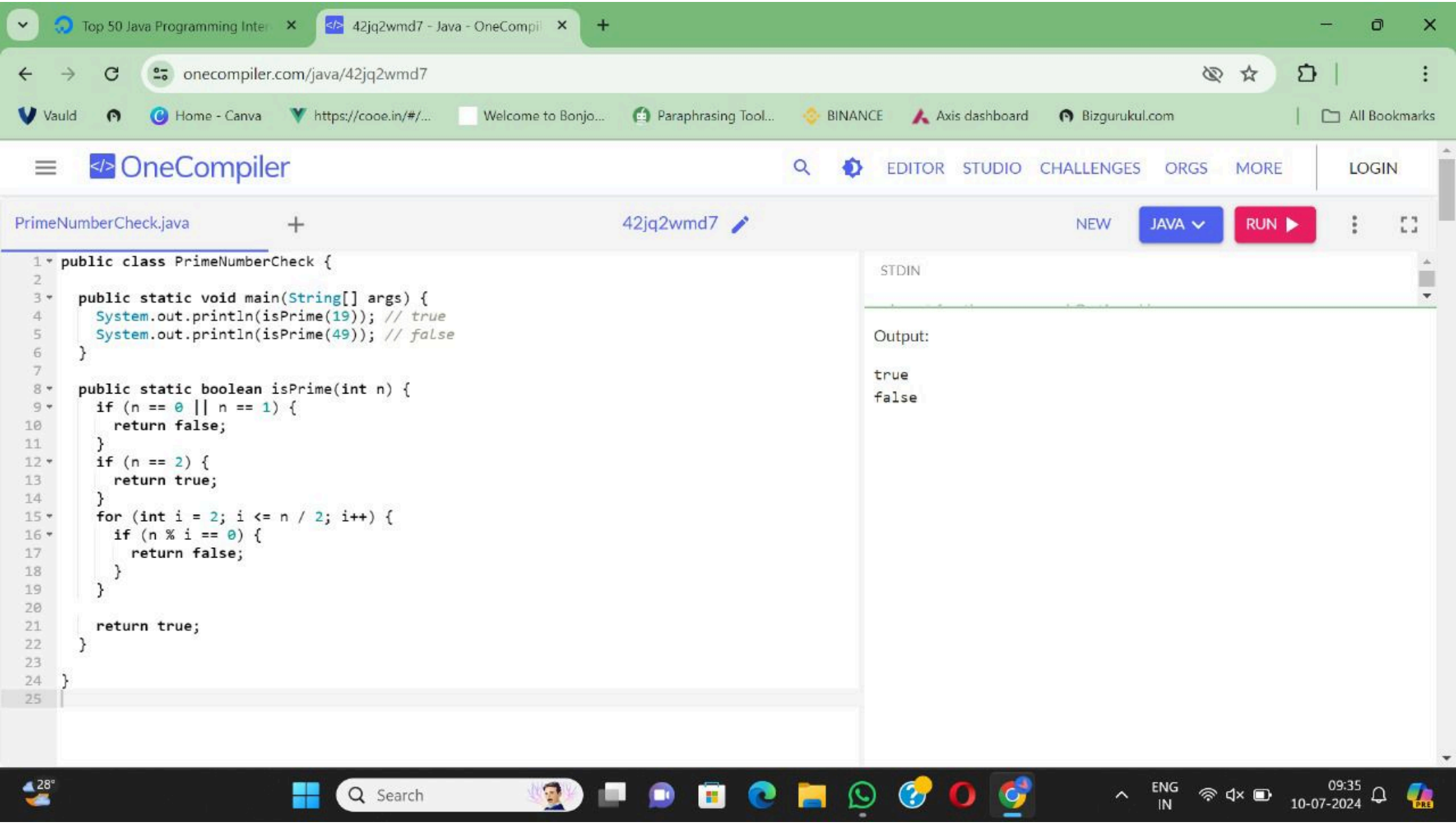
EDITOR
STUDIO
CHALLENGES
ORGS
MORE
LOGIN
StringContainsVowels.java
42jq2wmd7
NEW
JAVA
RUN
public class StringContainsVowels {
public static void main(String[] args) {
System.out.println(stringContainsVowels("mritsha")); // true
System.out.println(stringContainsVowels("murali")); // false
}
public static boolean stringContainsVowels(String input) {
return input.toLowerCase().matches(".*[aeiou].*");
}
}
STDIN
Output:
true
true
Search
ENG
IN
09:34
10-07-2024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STUDIO
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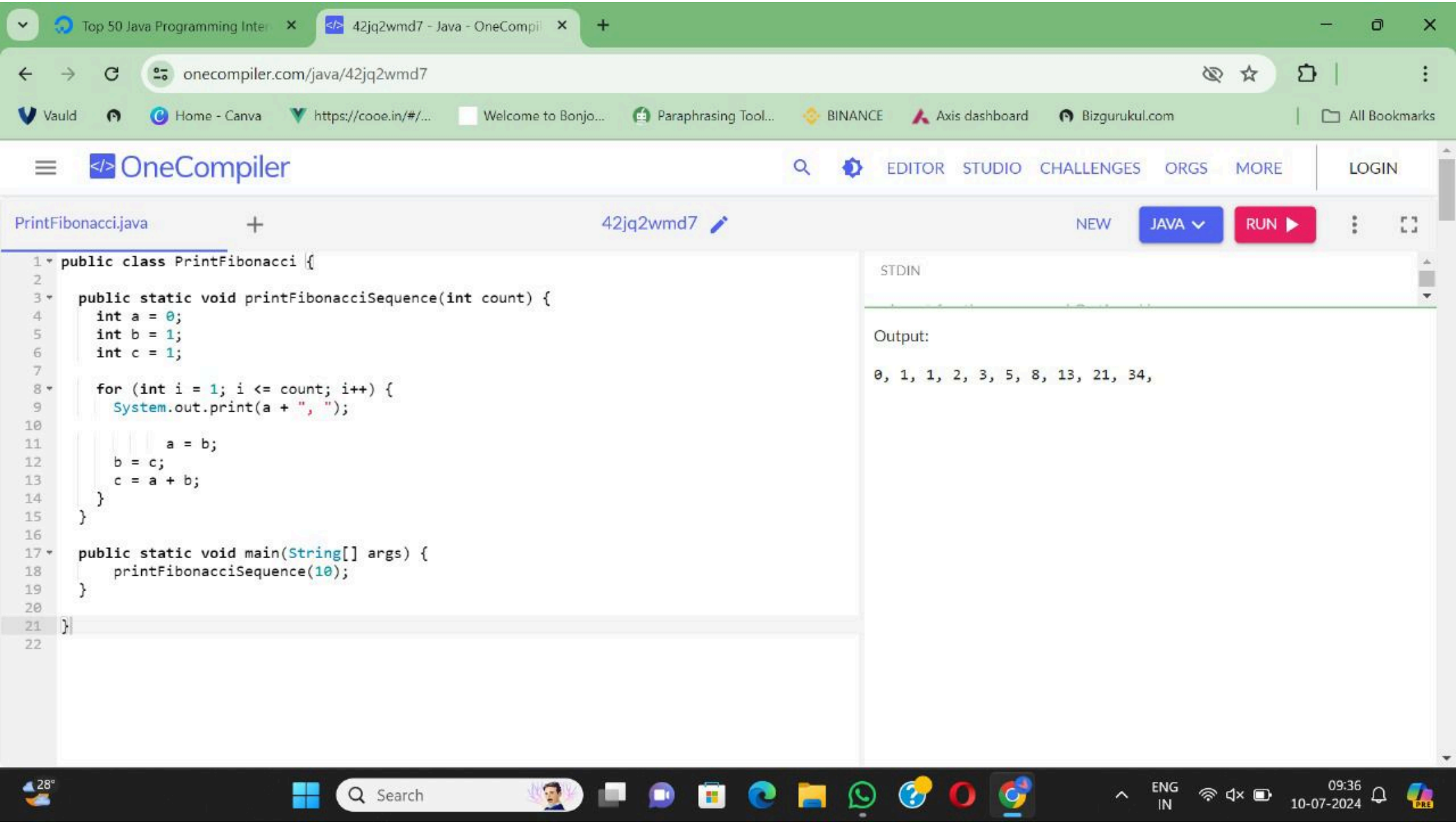
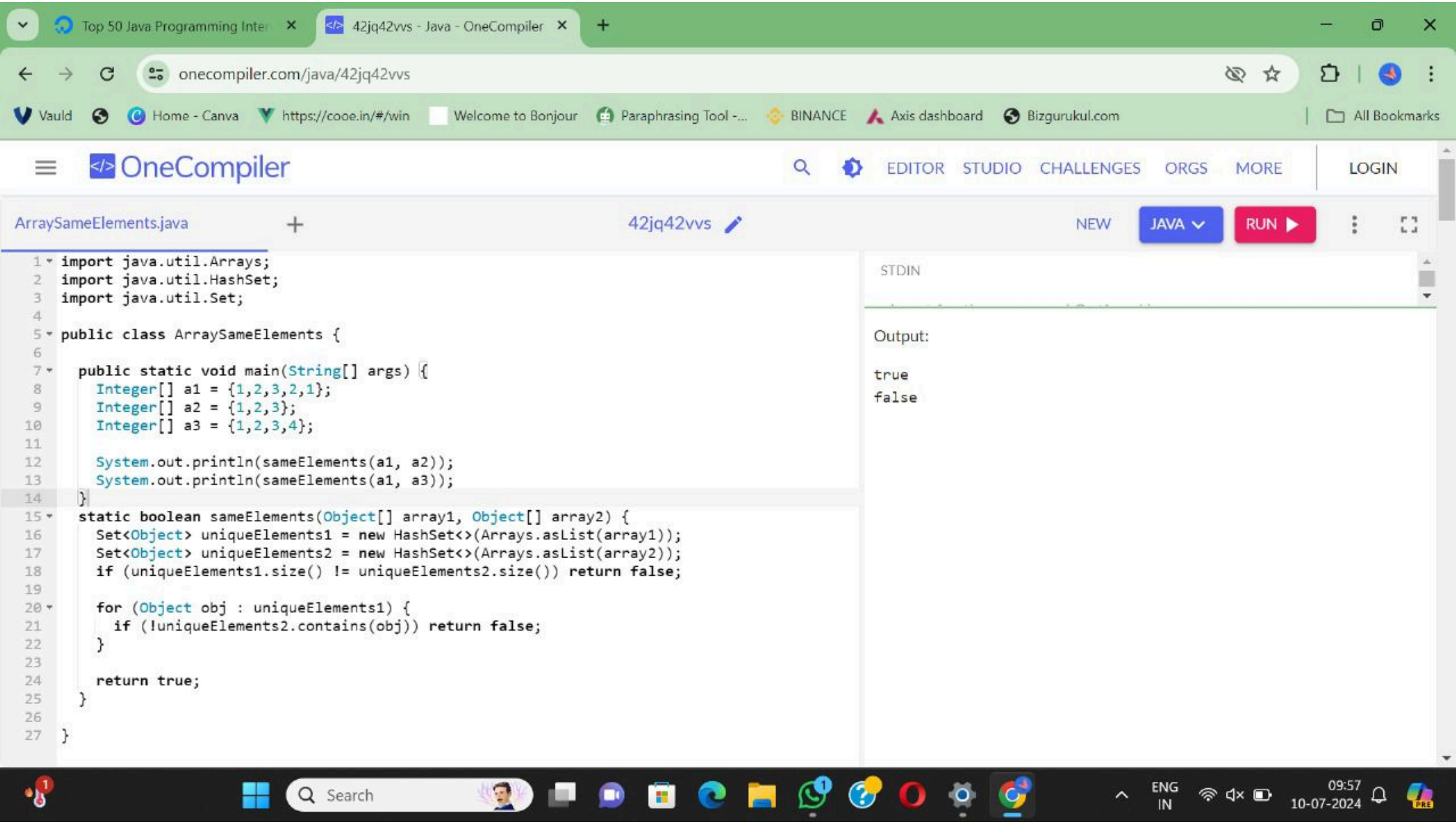
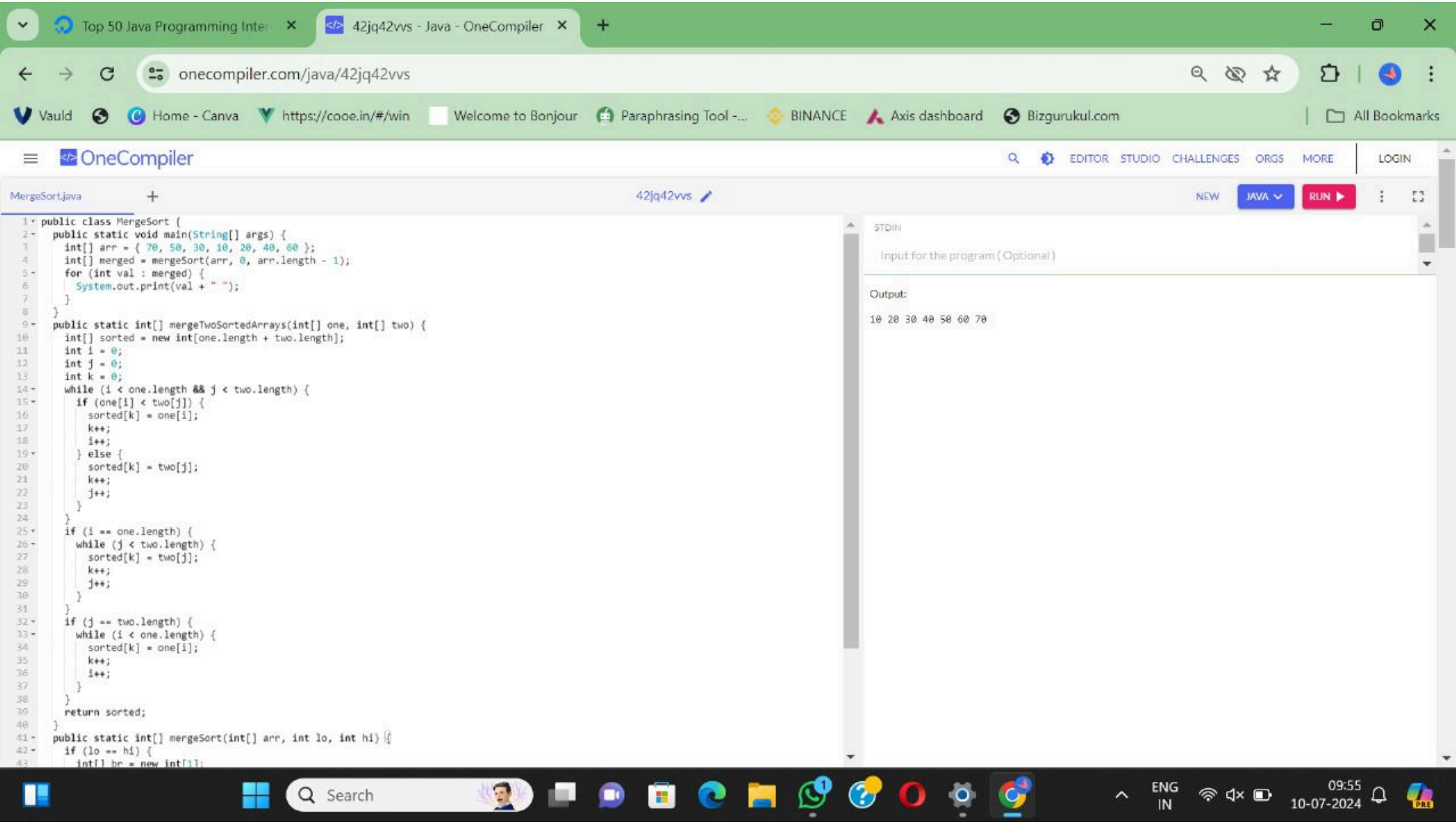
ORGS
MORE
LOGIN
PrimeNumberCheck.java
42jq2wmd7
NEW
JAVA
RUN
public class PrimeNumberCheck {
public static void main(String[] args) {
System.out.println(isPrime(19)); // true
System.out.println(isPrime(49)); // false
}
public static boolean isPrime(int n) {
if (n == 0 || n == 1) {
return false;
}
if (n == 2) {
return true;
}
for (int i = 2; i <= n / 2; i++) {
if (n % i == 0) {
return false;
}
}
return true;
}
}
STDIN
Output:
true
false
Search
ENG
IN
09:35
10-07-2024



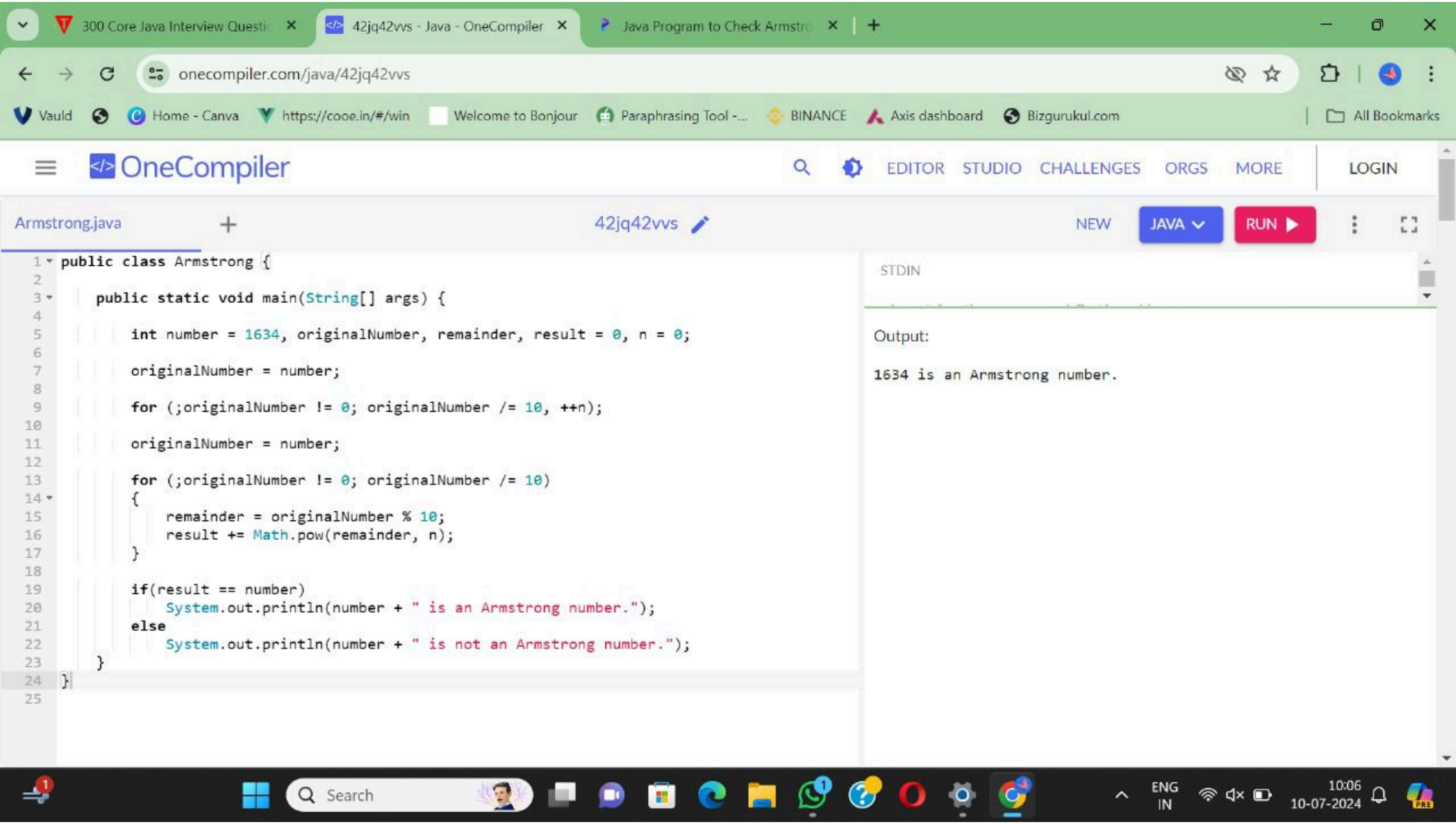

```java
public class PrintFibonacci {

  public static void printFibonacciSequence(int count) {
    int a = 0;
    int b = 1;
    int c = 1;

    for (int i = 1; i <= count; i++) {
      System.out.print(a + ", ");

          a = b;
      b = c;
      c = a + b;
    }
  }

  public static void main(String[] args) {
      printFibonacciSequence(10);
  }

}

```



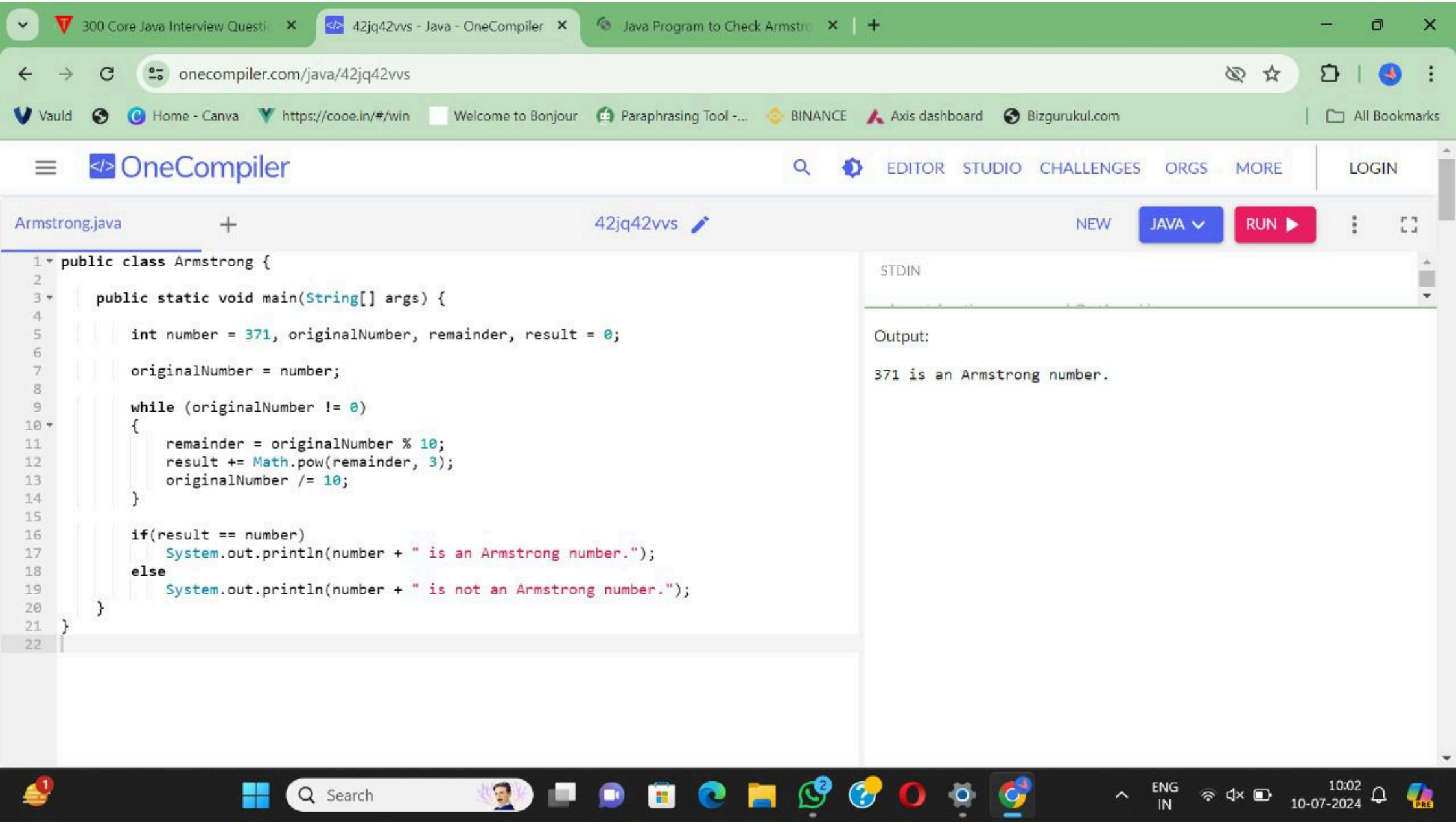

```java
import java.util.Arrays;
import java.util.HashSet;
import java.util.Set;

public class ArraySameElements {

  public static void main(String[] args) {
    Integer[] a1 = {1,2,3,2,1};
    Integer[] a2 = {1,2,3};
    Integer[] a3 = {1,2,3,4};

    System.out.println(sameElements(a1, a2));
    System.out.println(sameElements(a1, a3));
  }
  static boolean sameElements(Object[] array1, Object[] array2) {
    Set<Object> uniqueElements1 = new HashSet<>(Arrays.asList(array1));
    Set<Object> uniqueElements2 = new HashSet<>(Arrays.asList(array2));
    if (uniqueElements1.size() != uniqueElements2.size()) return false;

    for (Object obj : uniqueElements1) {
      if (!uniqueElements2.contains(obj)) return false;
    }

    return true;
  }

}
```




```java
public class MergeSort {
  public static void main(String[] args) {
    int[] arr = { 70, 50, 30, 10, 20, 40, 60 };
    int[] merged = mergeSort(arr, 0, arr.length - 1);
    for (int val : merged) {
      System.out.print(val + " ");
    }
  }
  public static int[] mergeTwoSortedArrays(int[] one, int[] two) {
    int[] sorted = new int[one.length + two.length];
    int i = 0;
    int j = 0;
    int k = 0;
    while (i < one.length && j < two.length) {
      if (one[i] < two[j]) {
        sorted[k] = one[i];
        k++;
        i++;
      } else {
        sorted[k] = two[j];
        k++;
        j++;
      }
    }
    if (i == one.length) {
      while (j < two.length) {
        sorted[k] = two[j];
        k++;
        j++;
      }
    }
    if (j == two.length) {
      while (i < one.length) {
        sorted[k] = one[i];
        k++;
        i++;
      }
    }
    return sorted;
  }
  public static int[] mergeSort(int[] arr, int lo, int hi) {
    if (lo == hi) {
      int[] br = new int[1];
```




```java
public class Armstrong {

    public static void main(String[] args) {

        int number = 1634, originalNumber, remainder, result = 0, n = 0;

        originalNumber = number;

        for (;originalNumber != 0; originalNumber /= 10, ++n);

        originalNumber = number;

        for (;originalNumber != 0; originalNumber /= 10)
        {
            remainder = originalNumber % 10;
            result += Math.pow(remainder, n);
        }

        if(result == number)
            System.out.println(number + " is an Armstrong number.");
        else
            System.out.println(number + " is not an Armstrong number.");
    }
}
```




```java
public class Armstrong {

    public static void main(String[] args) {

        int number = 371, originalNumber, remainder, result = 0;

        originalNumber = number;

        while (originalNumber != 0)
        {
            remainder = originalNumber % 10;
            result += Math.pow(remainder, 3);
            originalNumber /= 10;
        }

        if(result == number)
            System.out.println(number + " is an Armstrong number.");
        else
            System.out.println(number + " is not an Armstrong number.");
    }
}
```