

```
/home/weston/.jdk/openjdk-17.0.2/bin/java -javaagent:/h
How many numbers would you like to generate: 35
424 is a palindrome.
417 is not a palindrome.
130 is not a palindrome.
858 is a palindrome.
802 is not a palindrome.
874 is not a palindrome.
453 is not a palindrome.
959 is a palindrome.
226 is not a palindrome.
634 is not a palindrome.
256 is not a palindrome.
841 is not a palindrome.
982 is not a palindrome.
499 is not a palindrome.
693 is not a palindrome.
316 is not a palindrome.
576 is not a palindrome.
883 is not a palindrome.
563 is not a palindrome.
727 is a palindrome.
198 is not a palindrome.
946 is not a palindrome.
632 is not a palindrome.
868 is a palindrome.
374 is not a palindrome.
446 is not a palindrome.
176 is not a palindrome.
485 is not a palindrome.
123 is not a palindrome.
249 is not a palindrome.
352 is not a palindrome.
739 is not a palindrome.
796 is not a palindrome.
337 is not a palindrome.
483 is not a palindrome.
```

```
1 package Lab4;
2
3 import java.util.Scanner;
4
5 public class Exercise1 {
6
7     public static int getTotal() {
8         Scanner s = new Scanner(System.in);
9         System.out.print("How many numbers would you like to generate: ");
10        return s.nextInt();
11    }
12
13    public static int[] getRandoms(int n) {
14        int[] nums = new int[n];
15        for (int i = 0; i < n; i++) {
16            nums[i] = (int) (Math.random() * (999 - 100) + 100);
17        }
18
19        return nums;
20    }
21
22    public static int reverse(int num) {
23        StringBuilder build = new StringBuilder("" + num);
24        return Integer.parseInt(build.reverse().toString());
25    }
26
27    public static boolean palindrome(int num) {
28        return num == reverse(num);
29    }
30
31    public static void main(String[] args) {
32        int[] nums = getRandoms(getTotal());
33
34        for (int num : nums) {
35            System.out.println(num + " is " + (palindrome(num) ? "a palindrome." : "not a palindrome."));
36        }
37    }
38 }
```