Assignment 3



1

• Write a program that prints odd numbers from 1 to n (n is a int parameter).

public static int printOddNumbers (int n) { ... }



Write a program that generates the following output. (use loop)

```
public static void generateOutput() { ... }

1
22
333
4444
55555
666666
7777777
88888888
999999999
```



 Write a program that reads in one number and prints out all divisors (factors) of that number.

```
public static boolean isPrimeNumber(int n) { ... }
Eg.
Input: 42
Output: 1 2 3 6 7 14 21 42
```



Write a function that approximates pi in n steps
 public static boolean getPI(int n)

$$\pi = \sum_{k=0}^{\infty} rac{1}{16^k} \left(rac{4}{8k+1} - rac{2}{8k+4} - rac{1}{8k+5} - rac{1}{8k+6}
ight)$$

 Write a program that prints out all 3-digit numbers where the sum of digits is greater than 25. Expect: 899 989 998 999

public static void printSpecialNumbers()

