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CSC142

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HW#05 Last updated 10/23

Used IDEs: IntelliJ(Eclipse)

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Self-Checking Problems

1.

1. 10x
2. Infinity
3. Infinity
4. 3x
5. 5x
6. 7x

4.

mystery(19) => 19 0

mystery(42) => 21 1

mystery(48) => 3 4

mystery(40) => 5 3

mystery(64) => 1 6

6. generate random 0 ->10 both inclusive

Using Random class

‘’’

Random rand = new Random();

randNum = rand.nextInt(11);

‘’’

10.

package com.example.java;

import java.util.\*;

public class Main {

public static void main(String[] args) {

System.out.print("Enter the number you wanna test out: ");

Scanner console = new Scanner(System.in);

int myNum = console.nextInt();

// zeroDigits(myNum);

System.out.println(zeroDigits(myNum));

}

public static int zeroDigits(int myNum) {

int count = 0;

do{

if(myNum%10 ==0) {

myNum = myNum/10;

count ++;

} else {

myNum = myNum/10;

}

} while(myNum > 0);

return count;

}

}

14.

1. true
2. true
3. false
4. true
5. true
6. false
7. false
8. true
9. false
10. true
11. true
12. false

20.

mystery(3,3) => 3

mystery(5,3) => 5

mystery(2,6) => 6

mystery(12,18) => 18

mystery(30,75) => 75

22. d)

(2!=3) || (-1 >= 5) || !isPrime(n)

28.

n>b a>1 b>a

point A: always always always

point B: sometimes sometimes never

point C: sometimes always never

point D: sometimes never never

point E: always always always