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CS210 Winnie Li

Assignment 4

2)

a)

public class SelfCheckProblems {

public static void main (String [] args) {

int x;

int y;

int z = 2;

if (z % 2 == 1) {

System.out.println(z);

}

}

}

b) if (z <= Math.sqrt(y)) {

c) if (y > 0)

d) if (x % 2 != y %2)

// Don’t understand this one completely

e) if (z != 0)

f) z != 0

g) Math.abs(y) > Math.abs (z)

h) (x >= 0) == (z < 0)

i) y % 10 == y

j) z >= 0

k) x % 2 == 0

l) Math.abs (x – y ) < Math.abs (z – y )

2)

a) True

b) False

c) True

d) False

e) True

f) False

g) False

h) True

i) True

3)

e. if ( x == y ) {

4)

[ERROR] Line 5: incorrect use of parenthesis instead of brackets.

[ERROR] Line 5: invalid operator, missing equal sign (==).

[ERROR] Line 5: call for smaller variable is out of scope

[ERROR] Line 10: incorrect declaration, data type variable int needs to be declared instead.

[ERROR] Line 13: incorrect operator, should be >=

[ERROR] Line 16: data type int should not be declared in return statement

[ERROR] Line 16: Int smaller out of scope

5)

13 21

5 6

6 5

8 12

12)

import java.util.Scanner;

public class selfcheck {

public static void main (String [] args) {

Scanner console = new Scanner (System.in);

int numBills1 = getBills(console, “John”);

int numBills2 = getBills(console, “Jane”);

System.out.println(“John needs “ + numBills1 + “ bills”);

System.out.println(“Jane needs “ + numBills2 + “ bills”);

}

public static int getBills(Scanner console, String name) {

System.out.print(“How much will “ + name + “ be spending “);

double amount = console.nextDouble();

System.out.println();

int numBills = (int) (amount / 20.0);

if (numBills \* 20.0 < amount) {

numBills++;

}

Return numBills;

}

}

15)

[ERROR] Line 3: Variable int sum should be initialized prior to for loop.

20)

efg

nopqrs

qr

27)

If int 3 <= int n1 || int n2. This could be solved by utilizing nested else > else if > else.