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CSC142

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HW#04 Last updated 10/16

Used IDEs: IntelliJ(Eclipse)

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Chapter4

1. int x,y,z;

1. If !(z%2 == 0) {}
2. If !(z > Math.sqrt(y)) {}
3. If (y>0) {}
4. If (x%2 == 0 || y%2 == 0) && (z%2 == 1) {}
5. if (y%z == 0) {}
6. if !(z == 0) {}
7. if (y/z == 10) {}
8. if (x > 0 && z > 0) {}
9. if (y >=0 && y < 10) {}
10. if (z >= 0) {}
11. if (x %2 == 0) {}
12. if (Math.abs(y-x) < Math.abs(z-x)) {}

5. answer:

a) 13 21

b) 5 6

c) 6 5

d) 7 11

7 answer:

Public static String isEven(int x) {

String result = “”;

If( x%2 == 0) {

result = “even”;

} else {

result = “odd”;

}

return result;

}

}

13 answer:

if (color == “B” || color == “b”) {

System.out.println(“You have chosen Blue.”);

} else if (color == “G” || color ==“g”) {

System.out.println(“You have chosen Green.”);

} else if (color == “R” || color == “r”) {

System.out.println(“You have chosen Red.”);

} else {

System.out.println(“Unknown color: ” + color);

}

16 answer:

Return statement should reside out of the if block, and usually return statement brings the very last element for return value. Hence, you cannot use return in here for this specific case: to fix this, you set the initial black array and whenever you iterate push to the array and return the array for final results.

21 answer:

String str = "anyString";

char ch = str.charAt(0);

if (Character.isUpperCase(ch)) {

System.out.println(ch);

} else {

System.out.println(ch);

}

24 answer:

public static int main(String text){

String new\_str = text.toLowerCase();

int counter = 0;

for(int i=0; i <= new\_str.length()-1; i ++) {

if (new\_str.charAt(i) == 'n' ||

new\_str.charAt(i) == 'o' ||

new\_str.charAt(i) == 'p' ||

new\_str.charAt(i) == 'q' ||

new\_str.charAt(i) == 'r' ||

new\_str.charAt(i) == 's' ||

new\_str.charAt(i) == 't' ||

new\_str.charAt(i) == 'u' ||

new\_str.charAt(i) == 'v' ||

new\_str.charAt(i) == 'w' ||

new\_str.charAt(i) == 'x' ||

new\_str.charAt(i) == 'y' ||

new\_str.charAt(i) == 'z' )

{

counter ++;

}

return counter;

}

28 answer:

public static void main(String[] args) {

Scanner console = new Scanner(System.in);

double input\_a = console.nextDouble();

double input\_b = console.nextDouble();

double input\_c = console.nextDouble();

try {

System.out.println(“Enter three coefficients to solve quadratics");

quadratic(input\_a, input\_b, input\_c);

}

catch (Exception e){

System.out.println(“Coefficient a cannot be 0, please re-enter valid number!”);

}

}

public static void quadratic(double a, double b, double c) {

double ans1, ans2;

ans1 = (-b + Math.sqrt(Math.pow(b, 2)-4\*a\*c))/2\*a;

ans2 = (-b - Math.sqrt(Math.pow(b, 2)-4\*a\*c))/2\*a;

System.out.println("Answers are " + ans1 + " " + ans2);

}