

Note: It is recommended that you save your response as you complete each question.

Information


Translate each of the following English statements into logical tests that could be used in an if/else statement. Write the appropriate if statement with your logical test. Assume that three int variables, x, y, and z, have been declared.


Question 1 (5 points)


- a). z is odd
- b). y is positive
- c). Either x or y is even
- d). y is a multiple of z
- e). x and z are of opposite signs


Do **NOT** use any parenthesis. Prefer a space between every operator and operand.

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Information

Consider the following method:

```
public static void ifElseMystery1(int x, int y) {
    int z = 4;
    if (z <= x) {
        z = x + 1;
    } else {
        z = z + 9;
    }
}
```


```
    if (z <= y) {  
        y++;  
    }  
    System.out.println(z + " " + y);  
}
```

What output is produced for each of the following calls?

Question 2 (8 points) 

- a. `ifElseMystery1(3, 20);`
- b. `ifElseMystery1(4, 5);`
- c. `ifElseMystery1(5, 5);`
- d. `ifElseMystery1(6, 10);`

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Question 3 (7 points) 

Write a method called `daysInMonth` that takes a month (an integer between 1 and 12) as a parameter and returns the number of days in that month in this year. For example, the call `daysInMonth(9)` would return 30 because September has 30 days. Assume that the code is not being run during a leap year (that February always has 28 days).