

Name : _____ Date : _____

IF QUIZ 4A

Show the output of each block of code below. (100 points)

1. What is the output?

```
int g=100, h=10;
if((g>90)|| (h>10))
    out.println("123");
out.println("fun");
```

2. What is the output?

```
int a=100, b=10;
if((a>90)&&(b>10))
    out.println("123");
out.println("fun");
```

3. What is the output?

```
int c=100, d=10;
if(c>90)
    out.println("123");
else if(d>10)
    out.println("abc");
else
    out.println("456");
```

4. What is the output?

```
int e=50, f=7;
if(e>40)
    if(f>80)
        out.println("12");
    else
        out.println("34");
else
    if(f<10)
        out.println("56");
    else
        out.println("78");
out.println("fun");
```

5. Give one example of a set of values for e and f that would cause the code to print the number 34:

6. What is the value of the returned String for the following method calls?

mystery(13,true);

mystery(20, false);

mystery(40, false);

mystery(6, true);

```
public String mystery(int votes, boolean fanFav)
{
    if(votes < 7 && !fanFav)
        return "try again soon";
    else if( votes < 7 && fanFav)
        return "one inning";
    else if( votes >= 7 && votes < 20)
        return "two innings";
    else if(votes > 20 && !fanFav)
        return "pretty good";
    else if(votes > 20 && fanFav)
        return "superstar";
    else
        return "how did I get here?";
}
```

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STRING / RETURN METHODS QUIZ 1A

PART 1 - DIRECTIONS : Fill in each blank with the correct answer/output. Assume each statement happens in order and that one statement may affect the next statement.

```
String s = "cdefghijklm";
```

```
out.print(s.length());           // LINE 1
out.print(s.charAt(0));           // LINE 2
out.print(s.compareTo("abc"));    // LINE 3
out.print(s.charAt(3));           // LINE 4
out.print(s.charAt(s.length()-1)); // LINE 5
out.print(s.substring(0,3));       // LINE 6
out.print(s.substring(2,5));       // LINE 7
out.print(s.substring(4));         // LINE 8
out.print(s.indexOf('c'));         // LINE 9
out.print(s.indexOf('x'));         // LINE 10
out.print(s.indexOf('f'));         // LINE 11
```

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PART 2 - DIRECTIONS : Write a method named `isEven` that takes in one whole number and returns true if the whole number is even and false if the number is not even.

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IF QUIZ 4B

Show the output of each block of code below. (100 points)

1. What is the output?

```
int g=100, h=10;
if((g>90)&&(h>10))
    out.println("oops");
out.println("run");
```

2. What is the output?

```
int a=100, b=10;
if((a>90)|| (b>10))
    out.println("oops");
out.println("run");
```

3. What is the output?

```
int c=80, d=10;
if(c>90)
    out.println("fun");
else if(d>10)
    out.println("whoot");
else
    out.println("run");
```

4. What is the output?

```
int e=90, f=7;
if(e>40)
    if(f>80)
        out.println("12");
    else
        out.println("34");
else
    if(f<10)
        out.println("56");
    else
        out.println("78");
out.println("fun");
```

5. Give one example of a set of values for e and f that would cause the code to print the number 78:

6. What is the value of the returned String for the following method calls?

mystery(6, false);

mystery(22, false);

mystery(20, false);

mystery(19, true);

```
public String mystery(int votes, boolean fanFav)
{
    if(votes < 7 && !fanFav)
        return "try again soon";
    else if( votes < 7 && fanFav)
        return "one inning";
    else if( votes >= 7 && votes < 20)
        return "two innings";
    else if(votes > 20 && !fanFav)
        return "pretty good";
    else if(votes > 20 && fanFav)
        return "superstar";
    else
        return "how did I get here?";
}
```

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STRING / RETURN METHODS QUIZ 1A

PART 1 - DIRECTIONS : Fill in each blank with the correct answer/output. Assume each statement happens in order and that one statement may affect the next statement.

```
String s = "cdefghijklm";
```

```
out.print(s.length());           // LINE 1
out.print(s.charAt(0));          // LINE 2
out.print(s.compareTo("abc"));   // LINE 3
out.print(s.charAt(3));          // LINE 4
out.print(s.charAt(s.length()-1)); // LINE 5
out.print(s.substring(0,3));     // LINE 6
out.print(s.substring(2,5));     // LINE 7
out.print(s.substring(4));       // LINE 8
out.print(s.indexOf('c'));       // LINE 9
out.print(s.indexOf('x'));       // LINE 10
out.print(s.indexOf('f'));       // LINE 11
```

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| 9. | _____ |
| 10. | _____ |
| 11. | _____ |

PART 2 - DIRECTIONS : Write a method named `isEven` that takes in one whole number and returns true if the whole number is even and false if the number is not even.