JIU IT Major 20230124 PMJ, AEJ

Object-Oriented Programming

Practice Week2

What is wrong in the following code?

```
if (score >= 60) System.out.println("D");
else if (score >= 70) System.out.println("C");
else if (score >= 80) System.out.println("B");
else if (score >= 90) System.out.println("A");
else System.out.println("F");
```

Question 2. Boolean

x	у	x y	х && у
true	true	true	true
true	false	true	false
false	true	true	false
false	false	false	false

True = 1, False = 0

x	у	x y	х && у
true	tr <mark>u</mark> e	true	true
true	fane	true	false
falle	true	true	false
falle	fane	false	false



1 && 0

(true) && (3 > 4)

True = 1, False = 0

x	у	x y	х && у
true	tr <mark>u</mark> e	true	true
true	fane	true	false
falle	true	true	false
falle	fane	false	false



$$\frac{0}{1} = \frac{88}{1} = \frac{1}{1}$$

$$\frac{1}{1} = \frac{1}{1} = \frac{1$$



True = 1, False = 0

x	у	x y	x && y
true	true	true	true
true	fane	true	false
falle	true	true	false
falle	fane	falle	false

$$(x != 0) || (x == 0)$$

$$(x >= 0) | (x < 0)$$

$$(x != 1) == !(x == 1)$$

Question 3. Switch

```
System.out.println("switch(1)");
switch(1) {
  case 1:
    System.out.println("one");
    break;
  case 2:
    System.out.println("two");
    break;
  case 3:
    System.out.println("three");
    break;
  default:
    System.out.println("default");
    break;
```

Question 3. Switch

```
System.out.println("switch(1)");
switch(1) {
  case 1:
    System.out.println("one");
    break;
  case 2:
    System.out.println("two");
    break;
  case 3:
    System.out.println("three");
    break;
  default:
    System.out.println("default");
    break;
```



switch(1)
one

Question 1. If-elself

```
public class Ifelseif
    ♣ Park-Minjoo
    public static void main(String[] args){
        Scanner scan = new Scanner(System.in);
        double score = scan.nextDouble();
        if (score >= 90) System.out.println("A")
        else if (score >= 80) System.out.println("B");
        else if (score >= 70) System.out.println("C");
        else if (score >= 60) System.out.println("D");
        else System.out.println("F");
```

Question 2. Switch

```
switch (date) {
             <u>numberStr</u> = "Sunday";
                                       break;
    case 0:
             numberStr = "Monday";
    case 1:
                                       break;
             numberStr = "Tuesday";
    case 2:
                                       break;
             numberStr = "Wednesday"; break;
    case 3:
                                       break;
             numberStr = "Thursday";
    case 4:
            <u>numberStr</u> = "Friday";
                                       break;
    case 5:
    case 6: numberStr = "Saturday"; break;
    default: numberStr = "Not a valid day"; break;
```

Question 3. Day Of the Week

Enter today's day: 1 Penter

Enter the number of days elapsed since today: 3 Penter

Today is Monday and the future day is Thursday

4 = Thursday

Question 3. Day Of the Week

```
Enter today's day: 1 Penter

Enter the number of days elapsed since today: 3 Penter

Today is Monday and the future day is Thursday
```

```
int futureDate = (date + elapsed) % 7;
String <u>dayoftheWeek</u> = "";
switch(date){
    case 0: dayoftheWeek = "Sunday"; break;
    case 1: dayoftheWeek = "Monday"; break;
    case 2: dayoftheWeek = "Tuesday"; break;
    case 3: dayoftheWeek = "Wednesday"; break;
    case 4: dayoftheWeek = "Thursday"; break;
    case 5: dayoftheWeek = "Friday"; break;
    case 6: dayoftheWeek = "Saturday"; break;
```

Question 3. Day of the Week

```
Enter today's day: 1 -Enter

Enter the number of days elapsed since today: 3 -Enter

Today is Monday and the future day is Thursday
```

```
if (futureDate == 0){
   System.out.printf("Todays is %s and the future day is Sunday", dayoftheWeek);
else if(futureDate == 1){
   System.out.printf("Todays is %s and the future day is Monday", dayoftheWeek);
}else if(futureDate == 2){
   System.out.printf("Todays is %s and the future day is Tuesday", dayoftheWeek);
}else if(futureDate == 3){
   System.out.printf("Todays is %s and the future day is Wednesday", dayoftheWeek);
}else if(futureDate == 4){
   System.out.printf("Todays is %s and the future day is Thursday", <u>dayoftheWeek</u>);
}else if(futureDate == 5){
   System.out.printf("Todays is %s and the future day is Friday", dayoftheWeek);
}else if(futureDate == 6) {
   System.out.printf("Todays is %s and the future day is Saturday", dayoftheWeek);
```



Enter a three-digit integer: 121

```
121 is a palindrome
```

```
// Test for palindrome
                           1 (ones place)
int digit1 =
                            2 (tens place)
int remaining =
                            1 (hundreds place)
int digit3 =
```



Enter a three-digit integer: 121

21 ← Ent

121 is a palindrome

```
// Test for palindrome
int digit1 = (int)(number / 100); -> 1 (ones place)
int remaining = number % 100; -> 2 (tens place)
int digit3 = (int)(remaining % 10); -> 1 (hundreds place)
```

Question 4. Palindrome

```
// Test for palindrome
int digit1 = (int)(number / 100); -> 1 (ones place)
int remaining = number % 100; -> 2 (tens place)
int digit3 = (int)(remaining % 10) +> 1 (hundreds place)
```

Question 4. Palindrome

```
// Test for palindrome
int digit1 = (int)(number / 100);
int remaining = number % 100;
int digit3 = (int)(remaining % 10);
```

1 (hundreds place) == 1 (ones place)

Question 4. Palindrome

```
// Test for palindrome
int digit1 = (int)(number / 100);
int remaining = number % 100;
int digit3 = (int)(remaining % 10);
```

1 (hundreds place) == 1 (ones place)

```
Obtain the total seconds since midnight, Jan 1, 1970
long totalSeconds =
// Compute the current second in the minute in the hour
long currentSecond = totalSeconds % 60;
  Obtain the total minutes
long totalMinutes =
// Compute the current minute in the hour
long currentMinute =
  Obtain the total hours
long totalHours =
// Compute the current hour
long currentHour = totalHours % 24;
currentHour = currentHour + offset;
```

1 sec = 1000 millis

```
Obtain the total seconds since midnight, Jan 1, 1970
long totalSeconds = totalMilliseconds / 1000;
// Compute the current second in the minute in the hour
long currentSecond = totalSeconds % 60;
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long totalMinutes =
// Compute the current minute in the hour
long currentMinute =
  Obtain the total hours
long totalHours =
// Compute the current hour
long currentHour = totalHours % 24;
<u>currentHour</u> = <u>currentHour</u> + offset;
```

1 sec = 1000 millis

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Obtain the total seconds since midnight, Jan 1, 1970
long totalSeconds = totalMilliseconds / 1000;
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long currentSecond = totalSeconds % 60;
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long totalMinutes =
// Compute the current minute in the hour
long currentMinute =
  Obtain the total hours
long totalHours =
// Compute the current hour
long currentHour = totalHours % 24;
<u>currentHour</u> = <u>currentHour</u> + offset;
```

Current = total % 60

```
Obtain the total seconds since midnight, Jan 1, 1970
long totalSeconds = totalMilliseconds / 1000;
// Compute the current second in the minute in the hour
long currentSecond = totalSeconds % 60;
// Obtain the total minutes
long totalMinutes =
// Compute the current minute in the hour
long currentMinute =
// Obtain the total hours
long totalHours =
// Compute the current hour
long currentHour = totalHours % 24;
currentHour = currentHour + offset;
```

$$1 \min = 60 s$$

```
Obtain the total seconds since midnight, Jan 1, 1970
long totalSeconds = totalMilliseconds / 1000;
// Compute the current second in the minute in the hour
long currentSecond = totalSeconds % 60;
// Obtain the total minutes
long totalMinutes = totalSeconds / 60;
// Compute the current minute in the hour
long currentMinute =
// Obtain the total hours
long totalHours =
// Compute the current hour
long currentHour = totalHours % 24;
<u>currentHour</u> = <u>currentHour</u> + offset;
```

$$1 \min = 60 s$$

```
Obtain the total seconds since midnight, Jan 1, 1970
long totalSeconds = totalMilliseconds / 1000;
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long currentSecond = totalSeconds % 60;
// Obtain the total minutes
long totalMinutes = totalSeconds / 60;
// Compute the current minute in the hour
long currentMinute =
// Obtain the total hours
long totalHours =
// Compute the current hour
long currentHour = totalHours % 24;
currentHour = currentHour + offset;
```

```
Obtain the total seconds since midnight, Jan 1, 1970
long totalSeconds = totalMilliseconds / 1000;
// Compute the current second in the minute in the hour
long currentSecond = totalSeconds % 60;
// Obtain the total minutes
long totalMinutes = totalSeconds / 60;
// Compute the current minute in the hour
long currentMinute = totalMinutes % 60;
// Obtain the total hours
long totalHours =
// Compute the current hour
long currentHour = totalHours % 24;
<u>currentHour</u> = <u>currentHour</u> + offset;
```

1 hour = 60 m

```
Obtain the total seconds since midnight, Jan 1, 1970
long totalSeconds = totalMilliseconds / 1000;
// Compute the current second in the minute in the hour
long currentSecond = totalSeconds % 60;
// Obtain the total minutes
long totalMinutes = totalSeconds / 60;
// Compute the current minute in the hour
long currentMinute = totalMinutes % 60;
// Obtain the total hours
long totalHours = totalMinutes / 60;
// Compute the current hour
long currentHour = totalHours % 24;
<u>currentHour</u> = <u>currentHour</u> + offset;
```

1 hour = 60 m

```
Obtain the total seconds since midnight, Jan 1, 1970
long totalSeconds = totalMilliseconds / 1000;
// Compute the current second in the minute in the hour
long currentSecond = totalSeconds % 60;
// Obtain the total minutes
long totalMinutes = totalSeconds / 60;
// Compute the current minute in the hour
long currentMinute = totalMinutes % 60;
// Obtain the total hours
long totalHours = totalMinutes / 60;
// Compute the current hour
long currentHour = totalHours % 24;
<u>currentHour</u> = <u>currentHour</u> + offset;
```

1 hour = 60 m

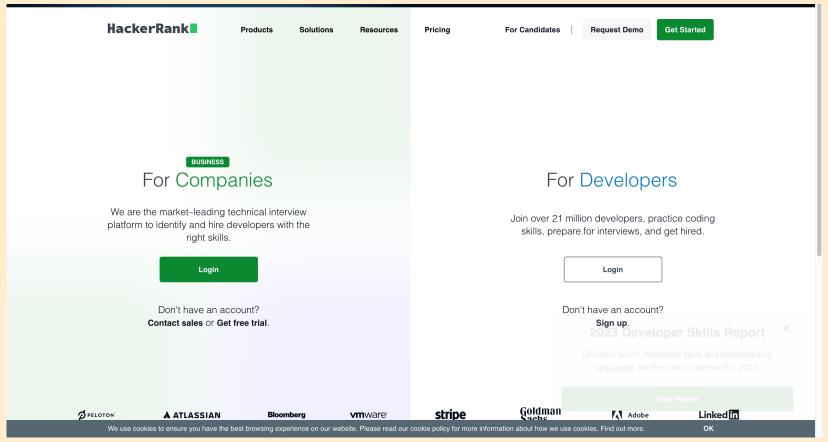
If (currentHour) > 12

else If (currentHour) <= 12

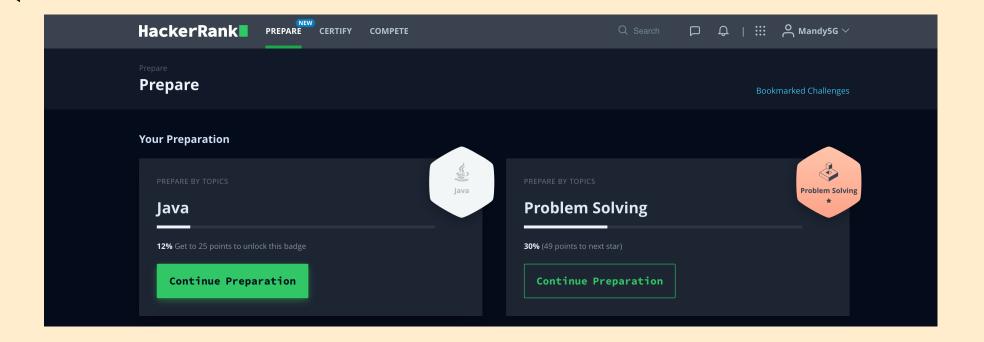


Question 3. Stdin and Stdout

https://www.hackerrank.com/



Question 3. Stdin and Stdout



https://www.hackerrank.com/

Introduction to Fava

The term Java from Java island....

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