

JEOPARDY!

Computer Science Edition

Data Types and Variables	Errors	Math Operators	The Math Class	Graphics
<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>
<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>
<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>
<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>

DT & V 100

Declare a variable to hold the number of baseball cards you have in your collection.

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DT & V 200

Initialize a variable to hold the constant value of gravity on earth
(9.81 m/s²)

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DT & V 300

How many bits are there for a variable of type double?

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DT & V 400

Roughly what is the largest value an int variable can hold?
(Must be within +/- 10%).

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DT & V 500

What type can be used to hold integer data that exceeds the limit of an int? (A decimal data type is NOT the correct answer)

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Errors 100

Every statement in a java program must end with what symbol?

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Errors 200

What type of error is the following? (syntax, runtime, or logic)

Your program calculates your birth year as -42.

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Errors 300

What type of error is the following? (syntax, runtime, or logic)

Your program crashes after trying to divide by 0.

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Errors 400

What type of error will the following code generate? (syntax, runtime, or logic)

```
int x;  
System.out.println(x);
```

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Errors 500

What type of error will the following code generate? (syntax, runtime, or logic)

```
int x = 5 /7;  
System.out.println(7/x);
```

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Math Ops 100

What does the following expression evaluate to?

$$54 \% 7$$

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Math Ops 200

What does the following expression evaluate to?

$$5 / 9 * (41 - 32)$$

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Math Ops 300

What value does the variable x hold after the following code?

```
int x = 5;
```

```
x++;
```

```
x *= 4;
```

```
x--;
```

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Math Ops 400

What code would you write to calculate the number of seconds and minutes given the total number of seconds?

```
int totalSeconds = ...;  
int minutes;  
int seconds;
```

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Math Ops 500

What code would you write to calculate the EXACT slope of the 2 points represented by (x_1, y_1) and (x_2, y_2) .

```
int x1 = ...;  
int y1 = ...;  
int x2 = ...;  
int y2 = ...;  
double slope;
```

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Math Class 100

What does the following expression evaluate to?

`Math.pow(2, 4)`

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Math Class 200

What does the following expression evaluate to?

`Math.min(-2, Math.max(-3, -4))`

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Math Class 300

What does the following expression evaluate to?

```
(int)(Math.random()*5)-10
```

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Math Class 400

What does the following expression evaluate to?

`(int)Math.random()*6+8`

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Math Class 500

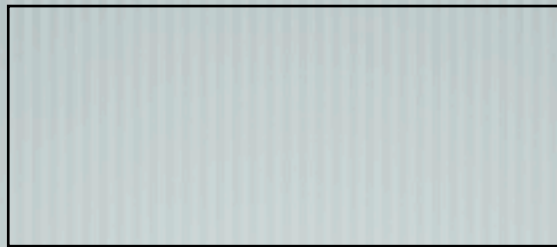
What code would you write to generate a random number from the set: $\{10, 12, 14, 16, 18\}$?

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Graphics 100

What graphics command would draw this shape?

(20,30)

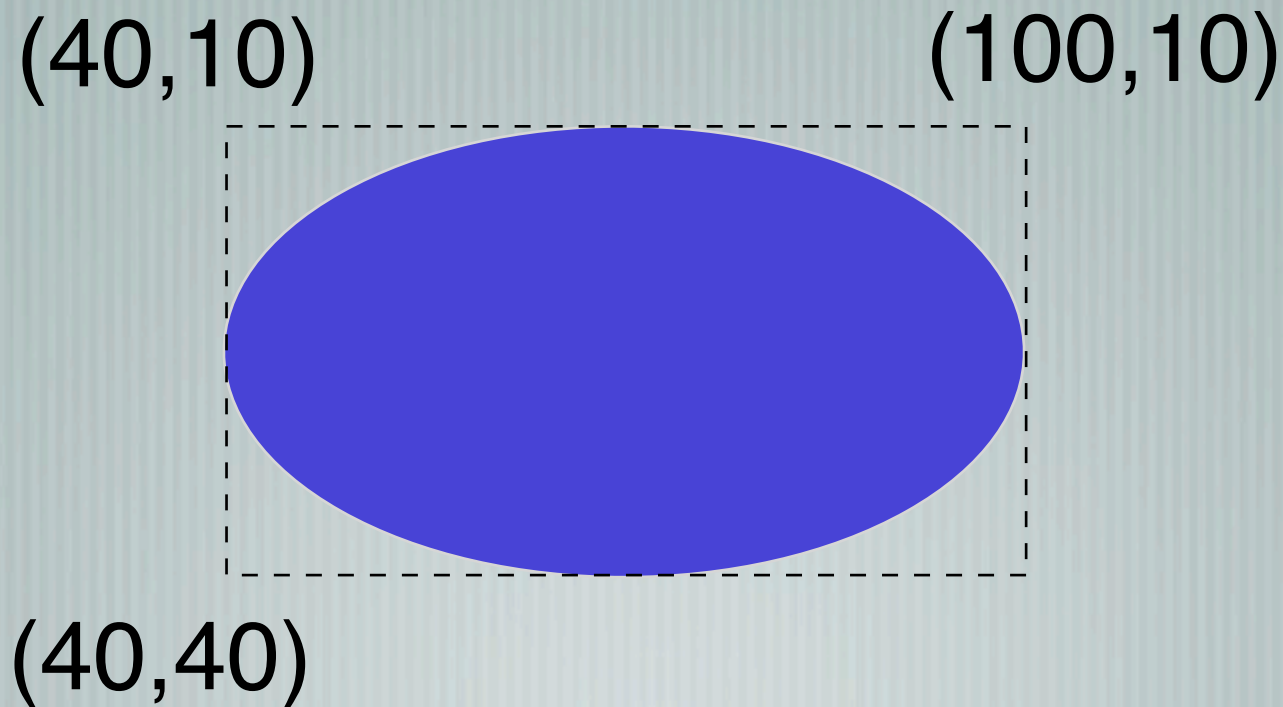


(60,40)

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Graphics 200

What graphics command would draw this shape?

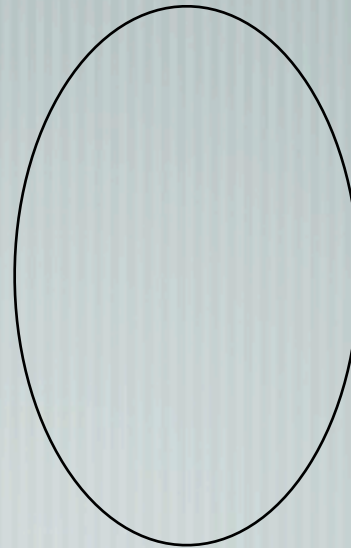


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Graphics 300

What graphics command would draw this shape?

center: (50,60)
height: 100
width: 40



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Graphics 400

What will the following code draw? Be specific.

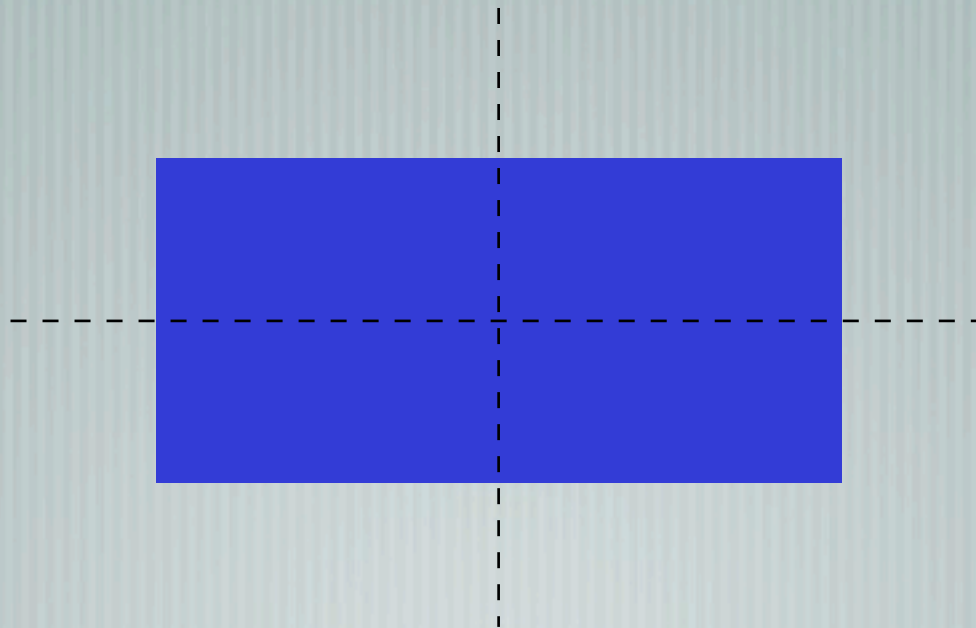
```
public void paint(Graphics g)
{
    g.setColor(Color.BLACK);
    g.fillArc(30, 20, 60, 50, 135, 180);
}
```

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Graphics 500

What graphics command would draw this shape perfectly centered in the middle of your drawing area?

width = 50
height = 20



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