

Welcome to CSE 121!

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Autumn 2023

Music: [121 23au Lecture Tunes](#) 



[sli.do #cse121](https://sli.do/#cse121)

TAs:	Trey	Christina	Sahej	Vinay	Kriti
	Sebastian	Colton	Anju	Maria	Minh
	Annie	Janvi	Jonus	Shreya	Vivian
	Jasmine	Arkita	Lydia	Andy	Nicole
	Christian	Vidhi	Luke	Nicolas	Simon
	Lucas	Ritesh	Andras	Shayna	Jessie
	Logan	Hibbah	Archit	Hannah	Lydia
	Jacob	Julia	Ayesha	Aishah	Yijia

Announcements, Reminders

- Check out [course website](#) for syllabus, links to all activities, materials
- My office hours posted on the staff page!
 - Wed 12:30-1:30pm, Fri 1:30-2:30pm in CSE 460 (or Zoom if needed)
 - The rest of the staff page will be populated later today
- Creative Project 0 will be out tonight!
- The IPL will open on Monday (Oct 2)
- Post your introductory video and watch others'!
- Fill out the introductory survey!
 - About 1/3 of the class has filled it out so far

Escape Sequences

escape sequence: A special sequence of characters used to represent certain special characters in a string.

- `\"` to produce `"` in a String
- `\\` to produce `\` in a String
- `\n` to produce a new line character (or line break) in a String
- And there are more!

Activities in Class

- **Goal:** To get you actively participating in your learning!
- May ask you to think and volunteer a suggestion
- May ask you poll in with a response (via slido)
- *Not graded* but strongly encouraged to maximize your learning and use of class time!

- Common Format: **Think, Pair, Share**
 - Question is posed
 - **Think** about the question on your own
 - **Pair** up with your neighbor and discuss the question
 - Focus on *how* you arrived at your answers, whether they're the same or different!
 - **Share** what you discussed with the rest of the class!

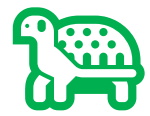
Poll in with your answer!



How many lines of output would the following code produce?

```
System.out.println("hello");  
System.out.print("hi");  
System.out.print("yo");  
System.out.println("greetings");  
System.out.print("sup");  
System.out.println("hey");
```

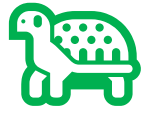
- a) 1
- b) 2
- c) 3
- d) 5
- e) 6



Turtle Time!



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Turtles!

```
Turtle donatello = new Turtle();
```

Method	Description
<code>forward(<i>n</i>)</code>	Moves the turtle forward by <i>n</i> steps
<code>backward(<i>n</i>)</code>	Moves the turtle backward by <i>n</i> steps
<code>right(<i>d</i>)</code>	Turns the turtle right by <i>d</i> degrees
<code>left(<i>d</i>)</code>	Turns the turtle left by <i>d</i> degrees
<code>speed(<i>ms</i>)</code>	Sets the number of milliseconds it takes for the turtle to perform an action (e.g., if <i>ms</i> is 1000, then it will take the turtle 1000 ms = 1 second to perform an action like moving forward or turning).
<code>up()</code>	Picks up the turtle's pen so it doesn't draw when it moves
<code>down()</code>	Puts the turtle's pen down so it draws when it moves
<code>width(<i>w</i>)</code>	Sets the width of the turtle's pen to <i>w</i> pixels wide
<code>penColor(<i>c</i>)</code>	Sets the color of the turtle's pen to <i>c</i>

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Poll in with your answer!



Assuming we have created a Turtle named Donatello, what do you think the following commands would end up drawing?

```
donatello.left(90);  
donatello.forward(30);  
donatello.right(135);  
donatello.forward(40);  
donatello.left(135);  
donatello.forward(30);
```

- a) A circle
- b) A triangle
- c) The letter M
- d) The letter N
- e) A star