Welcome to CSE 121!

Miya Natsuhara
Autumn 2023

Music: 121 23au Lecture Tunes ☁

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

sli.do #cse121
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
- \ 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 to 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?

```java
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!
### Turtles!

**Turtle donatello = new Turtle();**

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>forward($n$)</td>
<td>Moves the turtle forward by $n$ steps</td>
</tr>
<tr>
<td>backward($n$)</td>
<td>Moves the turtle backward by $n$ steps</td>
</tr>
<tr>
<td>right($d$)</td>
<td>Turns the turtle right by $d$ degrees</td>
</tr>
<tr>
<td>left($d$)</td>
<td>Turns the turtle left by $d$ degrees</td>
</tr>
<tr>
<td>speed($ms$)</td>
<td>Sets the number of milliseconds it takes for the turtle to perform an action (e.g., if $ms$ is 1000, then it will take the turtle 1000 ms = 1 second to perform an action like moving forward or turning).</td>
</tr>
<tr>
<td>up()</td>
<td>Picks up the turtle's pen so it doesn’t draw when it moves</td>
</tr>
<tr>
<td>down()</td>
<td>Puts the turtle's pen down so it draws when it moves</td>
</tr>
<tr>
<td>width($w$)</td>
<td>Sets the width of the turtle's pen to $w$ pixels wide</td>
</tr>
<tr>
<td>penColor($c$)</td>
<td>Sets the color of the turtle's pen to $c$</td>
</tr>
</tbody>
</table>
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  • Question is posed
  
  • **Think** about the question on your own
  
  • **Pair** up with your neighbor and discuss the question
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  • **Share** what you discussed with the rest of the class!
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