

LEC 11

CSE 121

User Input (Scanner)

Questions during Class?

Raise hand or send here

sli.do #cse121



BEFORE WE START

Talk to your neighbors:

*What's your (current or favorite)
Halloween costume? 🎃*

Music: 🎷 [CSE 121 25au Lecture Tunes](#) 🎵

Instructors: Brett Wortzman & James Weichert

TAs:	Trey	Ava	Caleb	Elden	Anya
	Amogh	Reese	Anum	Suyash	Minh
	Samrutha	Hayden	Abdul	Sthiti	TJ
	Dalton	Aki	Janvi	Paul	Zach
	Ailsa	Spencer	Navya	Shayna	Cayden
	Ryan	Savannah	Sam	Jesse	Johnathan
	Anant	Tamsyn	Jessica	Nhan	

👻 Happy Halloween! 🎃



Announcements, Reminders

- P2 due **Tuesday, November 11th**
- R3 out yesterday and due **Thursday, November 6th**
 - **P0**, C1, P1, C2 eligible
 - last opportunity to resubmit P0
- Quiz 1 is **Thursday, November 6th**, in your registered quiz section
 - practice quizzes, reference sheet [posted on Ed](#)
 - for loops, nested for loops, Random, Math, methods, parameters, returns, conditionals, while loops
- James' OH changes next week:
 - No coffee chats on Monday (11/3)
 - No Wednesday (11/5) OH, 1-3 PM on Friday (11/7) instead

PCM Review: Scanner

An **object** that we can use to *read in input*
In the `java.util` “package”!

`Scanner` `console` = `new Scanner(System.in);`
type name Scanner construction code

Methods	Description
<code>nextInt()</code>	Reads the next token from the user as an <code>int</code> and returns it.
<code>nextDouble()</code>	Reads the next token from the user as a <code>double</code> and returns it.
<code>next()</code>	Reads the next token from the user as a <code>String</code> and returns it.
<code>nextLine()</code>	Reads an <i>entire line</i> from the user as a <code>String</code> and returns it.

PCM Review: Tokens

A unit of user input, as read by the Scanner

Tokens are separated by *whitespace* (spaces, tabs, new lines)



PCM Review: InputMismatchException

Exceptions are errors that occur *while a program is running* that stops the program from running.

There are different types of exceptions that can occur, and the **name of the exception** can help you understand what caused the error!

An **InputMismatchException** occurs when the Scanner tries to read input in as a specific type, but the input cannot be interpreted as that type.

(e.g., trying to read in "hello" as an `int`)



Practice: Think

sli.do

#cse121

When calling the following method, which of these user inputs would not cause an error? (choose multiple)

```
public static void cornbear() {  
    Scanner console = new Scanner(System.in);  
    int amt = console.nextInt();  
    String firstName = console.next();  
    String secondName = console.next();  
    double price = console.nextDouble();  
}
```

- A. 6 Gumball's Treats \$12.48
- B. 3 Sesame Latte 16.47
- C. 2 The Hunger Games 21.98
- D. 4 Gumballs 900.24
- E. 2 Grammy Awards 90095



Practice: Pair

sli.do

#cse121

When calling the following method, which of these user inputs would not cause an error? (choose multiple)

```
public static void cornbear() {  
    Scanner console = new Scanner(System.in);  
    int amt = console.nextInt();  
    String firstName = console.next();  
    String secondName = console.next();  
    double price = console.nextDouble();  
}
```

- A. 6 Gumball's Treats \$12.48
- B. 3 Sesame Latte 16.47
- C. 2 The Hunger Games 21.98
- D. 4 Gumballs 900.24
- E. 2 Grammy Awards 90095