

Topics:	Student Teachers
<ul style="list-style-type: none"> • Programming Constructs 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ○ Primitive data types 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ boolean (True/False) 	Mari Nunan, Pooja Nagpal, Allie Furlan, Hana Kim, Kevin Markley, Diego Madrigal, Sachin Deepak, Blake Bordokas, Robby Kellog, Matt Faustgen, Esteban Delgado, Jake Tibbetts, Drew Boettner, Christopher Aziz, Fred Robinson, Angela Chourdry, Lauren Irwin, Oskar Zdziarski, Matt O'Brien
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ int 	Mari Nunan, Pooja Nagpal, Allie Furlan, Jackson Hart, Kevin Markley, Diego Madrigal, Derrick Compas, Sachin Deepak, Blake Bordokas, Robby Kellog, Matt Faustgen, Esteban Delgado, Bobby Gerami, Jake Tibbetts, Drew Boettner, Chris Aniello, Christopher Aziz, Fred Robinson, Angela Chourdry, Lauren Irwin, Oskar Zdziarski, Matt O'Brien
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ double 	Mari Nunan, Kevin Markley, Diego Madrigal, Derrick Compas, Sachin Deepak, Blake Bordokas, Robby Kellog, Esteban Delgado, Bobby Gerami, Thomas Buckley, Jake Tibbetts, Drew Boettner, Chris Aniello, Christopher Aziz, Fred Robinson, Angela Chourdry, Lauren Irwin, Oskar Zdziarski, Matt O'Brien
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ void (a.k.a. ignore me) 	Diego Madrigal, Sachin Deepak, Esteban Delgado, Lauren Irwin
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Arrays[] (a.k.a. fixed length lists) 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • Indexing 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • two-dimensional (a.k.a. matrix) 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • array.length 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • arrays of objects 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • initialized arrays such as <code>int[] x = {1, 2, 3}</code> 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ○ Declarations 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Constant 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Variable 	Kevin Markley, Blake Bordokas, Robby Kellog, Esteban Delgado, Jake Tibbetts, Drew Boettner, Drew Boettner, Christopher Aziz, Fred Robinson, Angela Chourdry, Lauren Irwin, Matt O'Brien
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Class 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Interface 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Method 	

Topics:	Student Teachers
<ul style="list-style-type: none"> • Parameter 	
<ul style="list-style-type: none"> • Return 	
<ul style="list-style-type: none"> ▪ Generics (a.k.a. <CLASS>) 	
<ul style="list-style-type: none"> ○ Primitive type casting 	Hana Kim, Kevin Markley, Sachin Deepak, Blake Bordokas, Robby Kellog, Esteban Delgado, Bobby Gerami, Jake Tibbetts, Drew Boettner, Drew Boettner, Christopher Aziz, Angela Chourdry, Lauren Irwin, Oskar Zdziarski, Matt O'Brien
<ul style="list-style-type: none"> ▪ (int) (a.k.a. make me an int) 	
<ul style="list-style-type: none"> ▪ (double) (a.k.a. make me a double) 	
<ul style="list-style-type: none"> ○ Operators 	
<ul style="list-style-type: none"> ▪ Relational 	Allie Furlan, Jackson Hart, Hana Kim, Jonathan Prescott, Diego Madrigal, Sachin Deepak, Blake Bordokas, Robby Kellog, Esteban Delgado, Bobby Gerami, Jake Tibbetts, Drew Boettner, Chris Aniello, Christopher Aziz, Fred Robinson, Caden Ramey, Angela Chourdry, Lauren Irwin, Oskar Zdziarski, Matt O'Brien
<ul style="list-style-type: none"> • == (a.k.a. equals) 	Hana Kim
<ul style="list-style-type: none"> • != (a.k.a. not equal to) 	
<ul style="list-style-type: none"> • >, <, >=, <= (a.k.a. Greater than, Less than, Greater than or equal to, Less than or equal to, ≥, and ≤) 	Thomas Buckley
<ul style="list-style-type: none"> ▪ Assignment 	
<ul style="list-style-type: none"> • = (a.k.a. equals) 	Jackson Hart, Hana Kim, Diego Madrigal, Will Lacey, Blake Bordokas, Robby Kellog, Esteban Delgado, Jake Tibbetts, Christopher Aziz, Fred Robinson, Caden Ramey, Angela Chourdry, Lauren Irwin, Oskar Zdziarski, Matt O'Brien
<ul style="list-style-type: none"> • ++ (a.k.a. Increment) 	
<ul style="list-style-type: none"> • -- (a.k.a. Decrement) 	
<ul style="list-style-type: none"> • +=, -=, /=, *=, %= (a.k.a. compound assignments) 	
<ul style="list-style-type: none"> ▪ Logical 	Hana Kim, Kevin Markley, Diego Madrigal, Will Lacey, Robby Kellog, Carson Hart, Esteban Delgado, Christopher Aziz, Angela Chourdry, Lauren Irwin, Oskar Zdziarski, Matt O'Brien

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<ul style="list-style-type: none"> • && (a.k.a. Logical AND) 	Allie Furlan, Jackson Hart, Sachin Deepak, Blake Bordokas, Bobby Gerami, Thomas Buckley, Jake Tibbetts
<ul style="list-style-type: none"> • (a.k.a. Logical OR) 	Allie Furlan, Jackson Hart, Sachin Deepak, Blake Bordokas, Bobby Gerami, Thomas Buckley, Jake Tibbetts
<ul style="list-style-type: none"> • ! (a.k.a. Logical NOT) 	
<ul style="list-style-type: none"> ▪ Arithmetic 	
<ul style="list-style-type: none"> • +, -, *, /, % (a.k.a. Add, Subtract, Multiply, Divide, Modulo or remainder) 	Allie Furlan, Jackson Hart, Derrick Compas, Sachin Deepak, Will Lacey, Blake Bordokas, Robby Kellog, Esteban Delgado, Bobby Gerami, Jake Tibbetts, Drew Boettner, Christopher Aziz, Caden Ramey, Angela Chourdry, Oskar Zdziarski
<ul style="list-style-type: none"> ▪ String Operators 	
<ul style="list-style-type: none"> • + (a.k.a. concatenation or “putting strings together”) 	Kevin Markley, Derrick Compas, Will Lacey, Blake Bordokas, Robby Kellog, Esteban Delgado, Bobby Gerami, Christopher Aziz, Caden Ramey, Angela Chourdry, Lauren Irwin, Matt O'Brien
<ul style="list-style-type: none"> • += (a.k.a. compound concatenation) 	
<ul style="list-style-type: none"> ○ Loops 	
<ul style="list-style-type: none"> ▪ for 	
<ul style="list-style-type: none"> • for 	
<ul style="list-style-type: none"> • for each 	
<ul style="list-style-type: none"> • for (type x : values) 	
<ul style="list-style-type: none"> ▪ while 	Blake Bordokas, Robby Kellog, Christopher Aziz, Caden Ramey, Lauren Irwin, Oskar Zdziarski, Matt O'Brien
<ul style="list-style-type: none"> ○ Conditionals 	Allie Furlan, Jackson Hart, Kevin Markley, Diego Madrigal, Esteban Delgado, Jake Tibbetts, Drew Boettner, Christopher Aziz, Caden Ramey, Angela Chourdry, Lauren Irwin, Oskar Zdziarski
<ul style="list-style-type: none"> ▪ if 	Matt O'Brien
<ul style="list-style-type: none"> ▪ if else 	
<ul style="list-style-type: none"> ○ Classes 	
<ul style="list-style-type: none"> ▪ Constructors 	
<ul style="list-style-type: none"> ▪ new operator 	
<ul style="list-style-type: none"> ▪ Methods 	
<ul style="list-style-type: none"> • public 	
<ul style="list-style-type: none"> • private 	
<ul style="list-style-type: none"> • static 	
<ul style="list-style-type: none"> • overloading 	
<ul style="list-style-type: none"> ▪ static variables 	

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<ul style="list-style-type: none"> ▪ static final variables (a.k.a. constants) 	
<ul style="list-style-type: none"> ▪ null type 	
<ul style="list-style-type: none"> ▪ Inheritance 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • interface 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • abstract 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • extends 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • implements 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • super class 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ○ calling the constructor 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ○ calling a method 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ○ using this 	
<ul style="list-style-type: none"> • Standard Java Libraries/Classes 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ○ System.out 	Derrick Compas, Robby Kellog, Esteban Delgado, Jake Tibbetts, Drew Boettner, Christopher Aziz, Oskar Zdziarski, Matt O'Brien, Chance Weston
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ print 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ println 	Hana Kim, Kevin Markley, Will Lacey, Angela Chourdry
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ○ String class 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Methods 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • compareTo 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • equals 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • length 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • substring 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • indexOf(String s) 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Escape sequences in literal strings 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • \n (a.k.a. new-line) 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • \\ (a.k.a. "so how do I make a \ then?") 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • \" (a.k.a. the quote mark) 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Interface 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • comparable<T> 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ○ Integer class 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Methods 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • Integer(int x) - Constructor 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • intValue 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> • toString 	

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<ul style="list-style-type: none"> • equals 	
<ul style="list-style-type: none"> • compareTo 	
<ul style="list-style-type: none"> ▪ Constants 	
<ul style="list-style-type: none"> • .MIN_VALUE, .MAX_VALUE 	
<ul style="list-style-type: none"> ▪ Interface 	
<ul style="list-style-type: none"> • comparable<T> 	
<ul style="list-style-type: none"> ○ Double class 	
<ul style="list-style-type: none"> ▪ Methods 	
<ul style="list-style-type: none"> • Double(double x) - Constructor 	
<ul style="list-style-type: none"> • doubleValue 	
<ul style="list-style-type: none"> • toString 	
<ul style="list-style-type: none"> • equals 	
<ul style="list-style-type: none"> • compareTo 	
<ul style="list-style-type: none"> ▪ Interface 	
<ul style="list-style-type: none"> • comparable<T> 	
<ul style="list-style-type: none"> ○ Math 	Esteban Delgado
<ul style="list-style-type: none"> ▪ abs(int x) (a.k.a. absolute value of integer) 	
<ul style="list-style-type: none"> ▪ abs(double x) (a.k.a. absolute value / real number) 	
<ul style="list-style-type: none"> ▪ pow(double base, double exp) (a.k.a. $base^{exp}$) 	
<ul style="list-style-type: none"> ▪ sqrt(double x) (a.k.a. \sqrt{x}) 	
<ul style="list-style-type: none"> ▪ random() (a.k.a. random number between 0-1) 	
<ul style="list-style-type: none"> ○ List<E> Interface 	
<ul style="list-style-type: none"> ○ ArrayList<E> 	
<ul style="list-style-type: none"> ▪ Constructor 	
<ul style="list-style-type: none"> ▪ add 	
<ul style="list-style-type: none"> ▪ get 	
<ul style="list-style-type: none"> ▪ set 	
<ul style="list-style-type: none"> ▪ remove 	
<ul style="list-style-type: none"> ▪ size 	
<ul style="list-style-type: none"> ▪ equals 	
<ul style="list-style-type: none"> • Exceptions 	
<ul style="list-style-type: none"> ○ NullPointerException (a.k.a. no return value error) 	
<ul style="list-style-type: none"> ○ ArrayIndexOutOfBoundsException (a.k.a. array index error) 	

Topics:	Student Teachers
○ ArithmeticException (a.k.a. divide by 0 error)	
○ IllegalArgumentException (a.k.a. wrong type parameter error)	
○ ClassCastException (a.k.a. Not a descendent class error)	
• Recursion	
• Preconditions	
• Post-conditions	