Java - AP Comp Sci Cheat Sheet

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Variables

Type	Description	Example Value
byte	8 bits	0
int	Integer	0
double	Integers w/ decimals	0.00
boolean	Boolean value (True or False)	False
char	Single character	'a'
String	One or more characters	"a1:&b!"

Instantiating

Primitives

```
int myInt = 12;
double myDouble = 2.11;
char myChar = 'c';
```

Strings

```
String myString = "hello";
```

Classes

```
MyClass classOne = new MyClass(parameters);
MyClass classTwo = new MyClass();
```

Getters & Setters

Getter

```
public int getMyInt()
{
   return myInt;
}
```

Setter

```
public void setMyInt(int newInt)
{
   myInt = newInt;
}
```

Size and Length

.length()	Returns the number of characters in a String object
.length()	Returns the number of elements in a Array
.size()	Returns the number of elements in a ArrayList

Operators

Operator	Description
+	addition of numbers, concentration of Strings
-	subtraction
*	multiplication
/	division
%	modulus; find remainder
+=	add and assign numbers, conventrate and assign Strings
-=	subtract and assign
*=	multiply and assign
/=	divide and assign
%=	modulus and assign
++	add one
--	subtract one
>	greater than
<	less than
>=	greater than or equal to
<=	less than or equal to
!	not
!=	not equal to
&&	and
||	or
==	comparison
=	assign

Loops

```
for (int i = 0; i < x; i++) { }
for (int i : someArray) { }
while (something is true) { }
```

Classes

```
public class MyClass
{
   private int myInt;
   private String myString;
   public MyClass()
   {
      myInt = 0;
      myString = "hello world";
   }
   public MyClass(int i, String s)
   {
      myInt = i;
      myString = s;
   }
}
```

Arrays

```
int[] myArrayTwo = {1, 2};
---------- or ----------
int[] myArray = new int[2];
myArray[0] = 1;
myArray[1] = 2;
```

ArrayList

.add(obj)	Appends obj to end of list
.add(index, obj)	Inserts obj at position index, moving elements at position index and higher to the right
.set(index)	Replaces the element at position index with obj; returns the element formerly at position index
.get(index)	Returns the element at position index in the list

ArrayList

.add(obj)	**Appends obj to end of list.**
.add(index, obj)	Inserts obj at position index, moving elements at position index and higher to the right.
.set(index, obj)	**Replaces the element at position index with obj.**
.get(index)	Returns the element at position index in the list.
.remove(index)	**Removes element from position index, moving elements at position index + 1 and higher to the left and subtracts 1 from size.**

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