Java notes

Enhanced For loops for arrays

* For (int x: foo) { sum += x} – takes an array and pares through using x as index in array (ex: int foo[] = {4,1,6,7}; first run: x=4 second run: x=1)

Embedded Arrays

* *Int foo[][] = { {0,1,2}, {2,5,12}, {2,6,4} } array of arrays*

Using Static

* *Used when the object is needed for the class level and not used on an individual instance(class boy: a boy’s name is non-static, but gender/number of boys is static*
* *Used in* ***classes****, using static means that it applies to the class itself and not the instance of the class, calling for an object of the class doesn’t make sense but calling for the class itself does*
  + *An individual cat can meow, but the species itself can’t meow if non-static*
* *Used in* ***fields****, variables that doesn’t matter to the instance of the object*
  + *A counter for the number of times that class has been called to make an object*
  + *A constant that is the same for each instance*
* *Used in* ***Methods,*** *you cannot reference a non-static variable/method from a static method because the variable/method would depend on the instance when the method is for the entire class. You can only call static variable/methods operating at the class level*

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