

AP Java Summer Assignment

Hello! Welcome to AP Java, aka AP CS A. Please complete the following for your summer assignment. It is best to complete the assignment in the order listed, unless you are familiar with Java already. You will turn in this assignment (with screen shots proving the work is done) in the first 2 weeks of school.

1. Go to <https://www.codecademy.com/learn/learn-java> and make a free account. Complete the lessons for Unit 1, 2, and 3 (4 is optional). These should only take about 30-60 minutes each. Please really READ them, and try to learn the new vocabulary (if you didn't take CP1). This should give you a good introduction to Java syntax and Object Oriented Programming, in a helpful environment with plenty of guidance. Some of this will be a review for CP1 students, but not all.

Save a screenshot (in a new file) of each completed Unit to turn in when school starts.

2. Get the newest edition of the **Barron's AP Computer Science A** Review book and do the following problems. You can order these on Amazon for < \$20. (Don't buy the Computer Science Principles book by mistake!)
Chapter 2: All problems; **(ch 1 in the 7th edition!)**
3. Log onto [CodingBat.com](https://codingbat.com), and make an account. All the problems in codingBat assume you are writing a method (function) and will be "returning" the answer (not printing it); you have to end with "return ____". Pick any 10 problems from Warmup1 to complete. (You might want to look at the solutions for some of them first, before you start, to get a sense of how the programs work.) Screen shot your successful completion of each problem, and your "Progress Graph". You will have a quiz on a variety of codingBat Warmup1 questions in the second week of school.

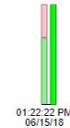
Here is an example of what your screenshot for each problem should look like:

Expected	Run	
parrotTrouble(true, 6) → true	true	OK
parrotTrouble(true, 7) → false	false	OK
parrotTrouble(false, 6) → false	false	OK
parrotTrouble(true, 21) → true	true	OK
parrotTrouble(false, 21) → false	false	OK
parrotTrouble(false, 20) → false	false	OK
parrotTrouble(true, 23) → true	true	OK
parrotTrouble(false, 23) → false	false	OK
parrotTrouble(true, 20) → false	false	OK
parrotTrouble(false, 12) → false	false	OK

 All Correct

Progress Graph

> Warmup-1 makes10



[About progress graphs](#)

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(Look below the green check to find a link to your progress graph.)

A progress graph with only 1 green bar is a good indication that it was either a REALLY EASY problem OR you copied the solution)

- If you have a home computer, please download [BlueJ](#), [Eclipse](#) or another kind of free Java software. Eclipse and BlueJ are the environments we will be able to use in class.

Try to create, compile and run a Java program. You can use any program from codeAcademy.