

2016-17 AP Computer Science A Summer Homework

1. Check out the class book from the library: *Building Java Programs*, 3rd edition, Reges & Stepp
2. Create a Practice-It account - <http://practiceit.cs.washington.edu/practiceit/index.jsp>
3. Key things to note: Make sure you specify Henry M. Jackson High School as your school, also add to your list of enrolled courses for your account. You can do this by clicking My Courses, then Add Course.

Department	Number	Offering	Instructor
JHS AP CSA	AP	2016-17	Thorleifson

This online resource is where you will complete the bulk of your homework this year, so you will probably want to bookmark it in your browser. You should attempt problems until you have solved them. Please understand a few things –

1) Perseverance is a requirement in Computer Science. Many problems will require multiple attempts to achieve a correct answer. This is not because you don't understand the information, but because you are encountering many of these concepts for the first time. Think about all the years of experience you have had learning how to solve Math problems or answer English questions. For many of you, this is the first time you are learning how to solve Computer Science problems; it will take time and practice!

2) Do not let yourself get overly frustrated with a problem. Don't get it right the first 3 times? Take a break! Come back to it later. Tried it again and you're still not any closer to understanding? E-mail me - mthorleifson@everettsd.org or use timberwolvesteals@googlegroups.com. I'll most likely be able to get back to you within the day.

3) These are the same problems listed in the back of your book. You can do them on paper or through Practice-it. I strongly recommend Practice-it as you will get immediate feedback to the validity of your code.

4. Required reading and associated homework problems:

Chapter 1.2 - read and take notes

Chapter 1.3 - read and take notes, watch video

http://media.pearsoncmg.com/aw/aw_reges_bjp_2/videoPlayer.php?id=c1-3

Complete Practice-it SC 1.6-1.9, 1.11 -1.14, and E 1.1-1.5

Chapter 1.4 - read and take notes, watch video

http://media.pearsoncmg.com/aw/aw_reges_bjp_2/videoPlayer.php?id=c1-4

Complete Practice-it E 1.6 - 1.9

Chapter 1.5 - read and take notes

Complete Practice-it SC 1.22, 1.23, 1.26, 1.29 and E 1.11, 1.12, 1.14, 1.16

5. Completion of these items will greatly assist you at the start of the school year. You may feel you don't understand these concepts completely - that's okay! You may feel a little lost or in over your head - I guarantee you you're not! It's HARD to read a college level text book on a topic with which you are unfamiliar. Do your best to at least learn some of the terminology and be familiar with the concepts. Try all of the homework assignments - even if you don't get them correct. I'm not expecting you to be a Java genius on your first day of class. During the first week we will cover these concepts again in more detail and answer all your questions. You will also get to use the concepts in a programming project which will help solidify your understanding.