

Warren Hills Regional HS

AP Computer Science

Summer Assignment

My objective for this summer assignment is not to overwhelm you with work, but to make sure we start the year ready to move forward from where we left off in the Intro to Computer Programming class. This assignment is especially important for students that haven't taken the Intro class. However, don't worry if you don't understand all the material. We will do a quick review of the material covered in the Intro class. I will spend the necessary time helping you catch up as long as you are willing to put forth the effort.

This assignment will be collected within the first week of school, but extra time can be given for those who are struggling with the material. It is more important to me that the work is your own rather than the assignment being finished on time. (The Honor System) Collaboration is encouraged but copying is cheating.

Read/ Skim Java Concepts chapter 1, 2, 4, 6 and 7

This is not a requirement but a suggestion. This is just a review. There will be topics in these three chapters that we didn't cover in Intro. Don't worry about understanding every little detail. Please don't spend too much time on this.

(note: 4.7 – we will use the keyboard class for input- see my website)

Programs: (Graded for all students)

The following programs can be done on paper or on the computer (preferred). The link for downloading eclipse and the keyboard class can be found on my website at warrenhills.org.

1. Write a program that will allow the user to enter two points and will output the distance between the two points using the distance formula.
2. Write a program that will print a random phone number of the form XXX-XXX-XXXX. The first three digits can't have a 8 or 9. In addition the first number can't be a zero. The second set of numbers can't be higher than 742.
3. Write a program that asks the user to enter a sentence. Count how many lower case vowels appear in the sentence.
4. Write a program that will output the following shape using nested for loops:

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*  
**  
***  
****  
*****  
*****
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If you have any questions, please feel free to email me at detrickdaryl@warrenhills.org. Please give me your email address before leaving for the summer.

Good luck and have a great summer. -- Mr. D