**Name \_\_\_\_\_\_\_Aditya Tikhe\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_8/27/18\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_2\_\_\_\_\_**

***Dear Advanced APCS students,***

***In order to provide an excellent learning environment for you in this coming school year, I would like you to help me answer the following questions, be as specific and detailed as possible, so that I can do a better job in terms of fulfilling your needs. Thank you for your time.***

***Mr. Lau***

1. Why did you sign up to take this course? Be specific.

I signed up to take this course to rejuvenate my love in computer science, as I took a year break from Computer Science A (sophomore year). I realized how much I missed programming and saw it as a future career field for me. I furthermore want to learn all I can about computer science as it truly interests me.

2. What do you expect to learn from this course? If you know nothing about the curriculum, just brainstorm by yourself and tell me something that you want to learn.

I expect to learn more about the Java language. Also, a friend of mine told me that this course delves into data structures, and I would look forward into learning about that. I also want to work more with GUI programs, as it was a highlight of Computer Science A.

3. What did you do over the summer that is related to computing (summer camp, internship, self-learning, taking an online course, teaching other people)? Please tell me what you learned through this experience. Be as specific as possible.

This summer I had the enriching opportunity to intern at Peridot Solutions, a tech company, and spearhead the creation of a web chat bot to answer frequently asked questions. Apart from learning leadership, and communication skills, I also learned how to work with many Microsoft softwares such LUIS (Language Understanding Intelligent Service) and Azure to put together a working bot.

I also attempted some APCS A work from 2 years ago to brush up what I have learned.

4. Please check those topics that you know something about. Tell me something about each if possible.

Linked list \_\_\_n/a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Recursion \_a method that calls itself for recursive functions \_

Big-O notation \_n/a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Stack \_\_\_n/a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Queue \_\_\_\_\_\_\_n/a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Priority Queue \_\_n/a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hash Table \_\_\_n/a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Heap \_\_\_n/a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tree n/a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Binary Search Tree \_\_\_left subtree is less or equal than the node’s key. the right is greater or equal than the node’s key.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Graph \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_n/a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Depth first search \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_n/a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Breadth first search \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_n/a

Quicksort efficient way of sorting data by swapping data around multiple times.

Other topics \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Your concerns about this course. Be specific and honest. Write as much as necessary!

I am concerned about keeping up with the material and the pace of the course as it sometimes takes me to time to understand it. I will put forth effort to stay after and work on it at home though.

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I am also worried about balancing my other AP courses as well as this class, but the balance and time management will come with practice.

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