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CS213 Data structure Assignment1

1. In your own words how do we solve in a computer. Explain.

* we can solve in computers, because computers can take a massive amount of numbers or data. Because computers can process data into calculations, however computers are calculators.

1. What is the difference between contiguous design and linked design?

* the difference between contiguous and linked design, the contiguous designs are composed of single slabs of memory, and include arrays, matrices, heaps, and hash tables. While the linked designs are composed of district chunks of memory bound together by pointers, and includes lists, and graph adjacency list.

1. Flowchart and pseudocode are two different design tools. How do they differ?

* the difference between them are,Pseudocode is the process where the language will be translated into software codes. The flowchart, on the other hand, will show the process that needs to be followed with shapes and colors to make the data flow of the program easier to understand. So basically, the flowchart helps to simplify and understand the problem, whereas pseudocode is a method of developing an algorithm.

1. Create an algorithm using pseudocode that will count the numbers from 1-10 and will get the sum.

Step1: Start

Step2: n=1

Step3: sum=0

Step4: sum=Start

Step5: n=n+1

Step6: if(n<=10)

Then go back to step 4

Step7: Display the sum

Step8: Stop