

CSE115L : Programming Language 1 (Final Assignment)

Faculty : Dr. A.K.M. Ashikur Rahman

Instructor : Nazmul Alam Diptu

Due : June 4th, 2020 Points : 35

1)

a. Write down a structure capable of storing the following information of available personal computer (PC) products in a retail store: (2 points)

- model number which is unique for each model
- speed of the processor (in gigahertz)
- the amount of RAM (in megabytes)
- the size of the hard disk (in gigabytes)
- the price

b. Use the above structure to take input of N models of PC's information. N will also be input to your program. (2 points)

c. Write down a function that will take an array of PC models and the number of PC models (N) as parameters and returns the number of models having a processor speed of at least 2.4 GHz. (3 points)

d. Write down a function that will take an array of PC models and the number of PC models (N) as parameters and return the price of the cheapest model. (3 points)

2) Write down a C program where you take an English sentence as input and do the followings:

- a. Print the first consonant appearing in the sentence. (5 points)
- b. Print all vowels in the sentence. (5 points)

3) Answer any 3 out of 4

- a. Write a C program which stores N integers in an array A, and two integers x and y which represents lower and upper bound of search range. Then write a function called findMax(int A[], int x, int y) which returns maximum value between x and y from that array if it exists or returns -1 if there is no value found in the range. (5 points)
- b. Write a Program for deletion of an element from Array. (5 points)
- c. Write down a program that will keep reading integers from the user until you get a 0 input. For all the integers you have read, print the summation of all of them. (5 points)
- d. Write down a program that will compare two words given as input and print yes if they are the same and no otherwise. (5 points)

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