CSC 345 Spring 2022

Chapter 1 Assignments

All of these are to be answered as a simple document and either e-mailed back to me a [csharp@shreve.net](mailto:csharp@shreve.net) or if you are on campus slip under my door TC247. They either be typed out IN WORD or handwritten.

HAVE THEM INTO ME BY FEBRUARY 14.

Section 1.1 #1

As you progress through Computer Science you will learn more about the industry, the people, and the future. The main professional organization – Association of Computing Machinery (acm.org) works through the international groups, local and even student chapters to promote and advance computing. At one time we even had a student chapter here and were able to bring in such national speakers as Dr. Grace Hopper (COBOL) and Dr. J A N Lee (Fortran). As mentioned on page 2 of the text Nygaard and Dahl with their creation of Simula – first object oriented programming language received the ACM TURING Award – which now has a

$ 1,000,000 cash prize.

I want you to go out to ACM.ORG and spend some time looking at / searching Turing award recipient’s - maybe in your area of interest – Programming, Gaming, Hardware, etc.

Hopefully this will let you know more about the wide range of Computer Science.

Let me know what you found and if you learned about a new area.

Section 1.2 #15 A

Find the Java Library description of the ArrayList Class and

What Class does it directly inherit from?

Section 1.2 # 16

Which of the expressions shown are legal and which are illegal?

Give a short explanation.

Section 1.4 #28

Describe three uses of Tree structured directory in organizing information.

Section 1.6 # 46

Draw out – (does not need to be pretty) the SELECTION SORT of the numbers

27 15 83 12 104 28 57 30

You can show for each run what elements are static and which are switched?

Use Page 51 figure 1.10 as a guide.