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CSCI 313

Question 8

Question: Create a templated class that effectively finds all possibilities of a list of random numbers that adds to some s.

In this question we want to use a template class to find all the possibilities of a sum value when asked from a certain group of numbers. Using a template class makes it more useful because then you don’t need to write or repeat as many functions but you have to be sure how to implement it right. My group and I could not figure out how to use a template class with this specific question but know how to do the simpler form. But when doing this question, when choosing the numbers, you can either you a use a list or array of numbers. We know that we want to use a vector x with the integers from 1 through 10, and then declare the template class x. Using the x vector we want to be able to print the function in the template class and to print the numbers. When writing a vector in your code, you need to take advantage of using std::vector.

The function should look like template <typename T>, and make sure to void the function for the for loop. When writing the public class, we want two classes because we want to find the solutions and be able to print them as well. In the private class in the template which is after the public it will take the vector of type T.