

1 h08 cs24 W19

h08: Chapter 6, sections 6.1-6.6

ready?	assigned	due	points
true	Wed 02/27 02:00PM	Mon 03/04 09:00AM	20

You may collaborate on this homework with AT MOST one person, an optional "homework buddy".

MAY ONLY BE TURNED IN IN THE LECTURE/LAB LISTED ABOVE AS THE DUE DATE, OR IF APPLICABLE, SUBMITTED ON GRADESCOPE. There is NO MAKEUP for missed assignments; in place of that, we drop the lowest scores (if you have zeros, those are the lowest scores.)

Complete your reading of Chapter 6, section 6.1 -6.2, 6.3 (ignore references to multiset of page 139), 6.4-6.6 (If you don't have a copy of the textbook yet, there is one on reserve at the library under "COMP000-STAFF - Permanent Reserve").

1. (10 pts) Write a template function named IsEqual() that compares two items and returns a boolean. If the items are equal the function should return true otherwise it should return false. The function has two parameters of the same type. The type may be any type that has a copy constructor and the == operator defined.

Please:

- · No Staples.
- · No Paperclips.
- No folded down corners.

2. (10 pts) Re-read pages 314-315. Then consider the Sequence class provided at the link https://github.com/ucsb-cs24-w18/hw5/blob/master/sequence.h. The Sequence class currently stores a list of words in a static array. Convert this class to a template class that can be used to store a collection of any datatype instead of just std::string. Write the new definition of the Sequence class below. You don't have to implement the methods.

template celass Item?

Ulass Sequence ();

Sequence ();

Void append (Item Hem);

Items operator [] (unsigned int index);

unsigned int size () court;

unsigned int get capacity () wast;

Item operator [] (unsigned int index) const;

prude.

Item totaliv]; unsigned introd; unsigned intraparity; 2 h08 cs24 w19