

CMSC 15200 – Introduction to Computer Science 2 Summer Quarter 2006 Homework #9 (08/23/2006) Due: 08/24/2006 @ 5pm

Name:					
Student ID:			Instructor:	Borja Sotomayor	
			Do not write i	n this area	
	1 2 TOTAL				
			Maximum possih	le noints: 25	



CMSC 15200 – Introduction to Computer Science 2 Summer Quarter 2006 Homework #9 (08/23/2006) Due: 08/24/2006 @ 5pm

Exercise 1 <<15 points>>

The homework files include an implementation of a Stack ADT (from Lab #4). The items in this stack can only be of integer type. You must modify this implementation using templates to allow the Stack ADT to contain *any* data type. A main.cpp file is provided to test your implementation. The expected output is the following:

CMSC 15200 – Introduction to Computer Science 2 Summer Quarter 2006 Homework #9 (08/23/2006) Due: 08/24/2006 @ 5pm

Exercise 2 <<10 points>>

You will write a simple program that will ask the user for an undefined amount of numbers (i.e. the user just keeps on inserting numbers until he decides to stop). You will use an STL vector to store these numbers. Once the user has finished typing in numbers, you will print out the contents of the vector (a) using the vector class's bracket operator, and (b) using iterators. Then you will sort the vector using one of the STL algorithm functions, and will print the contents of the vector again.

Type in number #1: 56 Another number? (y/n): y Type in number #2: 12 Another number? (y/n): y Type in number #3: 78 Another number? (y/n): y Type in number #4: 99 Another number? (y/n): y Type in number #5: 34 Another number? (y/n): y Type in number #6: 2 Another number? (y/n): y Type in number #7: 89 Another number? (y/n): n Numbers: 56 12 78 99 34 2 89 Numbers (with iterators): 56 12 78 99 34 2 89 Sorting... Numbers: 2 12 34 56 78 89 99

Numbers (with iterators): 2 12 34 56 78 89 99