Course ID	CS162				
Class ID	22CTT1				
Student ID	22125008				
Project	Data Visualization				
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No	Requirement	YES or NO			
	1 C++	YES	if any of these requirements is NO, the project result is 0 point		
	2 Multiple source files	YES			
	3 Linked lists or Dynamic arrays	YES			
	4 Struct for every data structure	YES			
	5 File I/O	YES			
	6 Prepare sample data for every complete feature	YES			
	7 Demo video	YES			
	8 Write a report to describe the structure of project	YES			
	9 Count the number of commits	YES			
Notes		Student is not allowed to edit this column 63* 5 => max = 315 points	Student must fill in this column before submitting to Moodle		
		91 bonus			
		812	406		
Feature ID	Feature Description	Grade	Graded by Student	Notes	
	Static array				
	1 Init from file	5	5		
	2 Randomized data	5			
	3 Insert to the first	5			
	4 Insert to the last	5			
	5 Insert to the middle	5			
	6 Delete at the first	5			
	7 Delete at the last	5			
	8 Delete at the middle	5			
	9 Update	5			
	10 Access	5			
	11 Search	5			
	Dynamic array				
	12 Init from file	5	5		

13 Randomized data	5	5	
14 Insert to the first	5	5	
15 Insert to the last	5	5	
16 Insert to the middle	5	5	
Delete at the first	5	5	
Delete at the last	5	5	
19 Delete at the middle	5	5	
20 Update	5	5	
21 Allocate	5	5	
22 Access	5	5	
23 Search	5	5	
Simply linked list			
24 Init from file	5	5	
25 Randomized data	5	5	
26 Insert to the first	5	5	
27 Insert to the last	5	5	
28 Insert to the middle	5	5	
29 Delete at the first	5	5	
30 Delete at the last	5	5	
31 Delete at the middle	5	5	
32 Update	5	5	
33 Search	5	5	
Doubly linked list			
34 Init from file	5	5	
35 Randomized data	5	5	
36 Insert to the first	5	5	
37 Insert to the last	5	5	
38 Insert to the middle	5	5	
39 Delete at the first	5	5	
40 Delete at the last	5	5	
41 Delete at the middle	5	5	
42 Update	5	5	
43 Search	5	5	
Circular linked list			
44 Init from file	5	5	
45 Randomized data	5	5	
		5	
46 Insert to the first	5	3	
46 Insert to the first 47 Insert to the last	5	5	

	50 Delete at the last	5	5	
	51 Delete at the middle	5	5	
	52 Update	5	5	
	53 Search	5	5	
	Stack	3	3	
	54 Init from file	5	5	
	55 Randomized data	5	5	
	56 Push	5	5	
	57 Pop	5	5	
	58 Clear			
		5	5	
	Queue 59 Init from file			
		5	5	
	60 Randomized data	5	5	
	61 Add	5	5	
	62 Remove	5	5	
	63 Clear	5	5	
Bonus	Run step by step			
B1	Dynamic array	5	5	
B2	Simply linked list	10	10	
B3	Doubly linked list	10	10	
B4	Circular linked list	10	10	
B5	Stack	10	10	
B6	Queue	10	10	
Bonus	Color, size & style			
B7	Dynamic array	4	4	
B8	Simply linked list	4	4	
B9	Doubly linked list	4	4	
B10	Circular linked list	4	4	
B11	Stack	4	4	
B12	Queue	4	4	
Bonus	Show highlight			
B13	Dynamic array	2	2	
B14	Simply linked list	2	2	
B15	Doubly linked list	2	2	
B16	Circular linked list	2	2	
B17	Stack	2	2	
B18	Queue	2	2	
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