Course ID	CS163									
Class ID	22CTT1									
Student ID	22125008									
Project	Data Visualization									
No	**Requirement**	**YES or NO**								
1	C++	YES	*if any of these requirements is NO, the project result is 0 point*							
2	Multiple source fi	YES								
3	Struct for every d	YES								
4	File I/O	YES								
5	Prepare sample (	YES								
6	Demo video	YES								
7	Write a report to (	YES								
8	Count the numbe	YES								
9	Git	YES								
Notes		*Student is not allowed to edit this column* *max = 65 points*	*Student must fill in this column before submitting to Moodle*							
		130	**65**							
Feature ID	**Feature Description**	**Grade**	**Graded by Student**	**Notes**						
	Hash table									
1	Init from file	1	1							
2	Randomized data	1	1							
3	Insert (run step by step)	1	1							
4	Insert (run at onc	2	2							
5	Delete (run step by step)	1	1							
6	Delete (run at once)	2	2							
7	Search (run step by step)	1	1							
8	Search (run at once)	1	1							
	AVL tree									

19	Init from file	1	1							
20	Randomized data	1	1							
21	Insert (run step by step)	1	1							
22	Insert (run at onc	2	2							
23	Update									
24	Update									
25	Delete (run step by step)	1	1							
26	Delete (run at once)	2	2							
27	Search (run step by step)	1	1							
28	Search (run at once)	1	1							
	234 tree									
39	Init from file	1	1							
40	Randomized data	1	1							
41	Insert (run step by step)	1	1							
42	Insert (run at onc	2	2							
43	Update									
44	Update									
45	Delete (run step by step)	1	1							
46	Delete (run at once)	2	2							
47	Search (run step by step)	1	1							
48	Search (run at once)	1	1							
	Min heap & Max heap									
49	Init from file	1	1							
50	Randomized data	1	1							
51	Insert (run step by step)	1	1							
52	Insert (run at onc	1	1							
53	Delete (run step by step)	1	1							

54	Delete (run at once)	1	1							
55	Get top	1	1							
56	Size	1	1							
	Trie									
57	Init from file	1	1							
58	Randomized data	1	1							
59	Insert (run step by step)	1	1							
60	Insert (run at onc	1	1							
61	Delete (run step by step)	1	1							
62	Delete (run at once)	1	1							
63	Search (run step by step)	1	1							
64	Search (run at once)	1	1							
	Graph									
65	Init from file, from matrix	1	1							
66	Randomized data	1	1							
67	Connected components	1	1							
68	Minimum spanning tree	2	2							
69	Dijsktra	2	2							
	Color, size & style									
70	Hash table	1	1							
71	Binary tree	1	1							
72	AVL tree	1	1							
73	23 tree	0	0							
74	234 tree	1	1							
75	Min heap	1	1							
76	Max heap	1	1							
	Show highlight									
77	Hash table	1	1							
78	Binary tree	1	1							
79	AVL tree	1	1							

80	23 tree	0	0							
81	234 tree	1	1							
82	Min heap	1	1							
83	Max heap	1	1							