

CS2308: Spring 2023

Assignment 2 Rubric

Student Name:

Style: 20 points

Condition	Max Points	Points Awarded
All lines less than 80 characters.	4	
Variables have meaningful names.	4	
Actions are fully commented.	4	
Every block indented one tab or 4 spaces.	2	
Code is not duplicated between branches (e.g. in an if...else)	2	
File name is [Authors Last Name]_assignment2.cpp	2	
Author, collaborators, and date comments included.	2	

Non-functional Requirements: 30 points

Condition	Max Points	Points Awarded
Robot struct has all listed member.	5	
All functions are fully commented.	5	
Program stores dynamically allocated array of Robot pointers with the size input at run-time.	10	
Memory for the list of Robots is allocated in the makeRoboList function.	5	
All dynamically allocated memory is deleted	5	

Test Cases: 50 points

Projects that do not compile will not be graded on these Test Cases.

Projects that terminate early will only be graded to the case where they cease running.

Input	Console Output is at least...	Max Points	Points Awarded
Start Program	Welcome. How many robots? Please name each robot. (Exact text may vary)	2	
3 Autumn Marwa Keiko	Please select: M- move D- distances Q- quit		
m Marwa L M Marwa l m Marwa L	Marwa's position is -1, 0 Marwa's position is -3, 0 Marwa's position is -6, 0	5	
M Autumn r m Autumn l	Autumn's position is 1, 0 Autumn's position is 0, 0	3	
M Keiko r m Keiko d m Keiko D	Keiko's position is 1, 0 Keiko's position is 1, -1 Keiko's position is 1, -3	5	
M Marwa l m Marwa L	Marwa's position is -10, 0 Marwa's position is -14, 0	5	
T	Program prints error message (Exact text may vary)	5	
M Karl	Program prints error message (Exact text may vary)	5	
m Keiko e m Keiko D	Program prints error message (Exact text may vary) Keiko's position is 1, -6	5	
D	Marwa 14 Keiko 7 Autumn 2	10	
Q	Goodbye (Exact text may vary) (Program should terminate)	5	

Total Points: