

CS2308: Spring 2023

Assignment 3 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]_assignment3.cpp	2	
Author, collaborators, and date comments included.	2	

Non-functional Requirements: 30 points

Condition	Max Points	Points Awarded
Robot has been defined as a class, not struct	5	
Robot class has all listed member variables and <u>functions</u> .	5	
All functions are fully commented.	5	
Program stores array of Robot pointers.	5	
Robot data members are private.	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	
4 Berry Edan Edwards Maclean	Please select: M- move D- distances Q- quit		
m Edan s M Edan l	Edan is now stopped Program prints error message (Exact text may vary)	5	
M Maclean r m Maclean s m Maclean s M Maclean r	Maclean's position is 1, 0 Maclean is now stopped Maclean is now started Maclean's position is 2, 0	8	
M Edwards r m Edwards U m Edwards l M Edwards d	Edwards's position is 1, 0 Edwards's position is 1, 1 Edwards's position is 0, 1 Edwards's position is 0, 0	10	
T	Program prints error message (Exact text may vary)	2	
r Berry Shauna m Berry	Berry's name is now Shauna Program prints error message (Exact text may vary)	5	
m Shauna l	Shauna's position is -1, 0	5	
D	Edwards 4 Maclean 2 Shauna 1 Edan 0	8	
Q	Goodbye (Exact text may vary) (Program should terminate)	5	

Total Points: