

**CS2308: Fall 2022**  
**Assignment 4 Rubric**  
**Student Name:**

**Style: 20 points**

Condition	Max Points	Points
		Awarded
All lines less that 80 characters.	4	
Variables have meaningful names.	4	
Every block indented one tab or 4 spaces.	4	
Comments included for “complicated” actions.	2	
File names are main.cpp, Robot.h, Robot.cpp, RobotList.h, and RobotList.cpp.	4	
Author, collaborators, and date comments included.	2	

**Non-functional Requirements: 30 points**

Condition	Max Points	Points
		Awarded
Robot and RobotList has been defined as classes, not structs	4	
Robot and RobotList classes have all listed member variables and functions.	4	
All functions are fully commented.	4	
Program stores Robots in a linked list	10	
Robot and RobotList data members are private.	4	
All dynamically allocated memory is deleted	4	

## Test Cases: 50 points

Input	Console Output is at least...	Max Points	Points Awarded
Start Program	Welcome. How many robots? Please name each robot. <b>(Exact text may vary)</b>	2	
2			
Wiles			
Xiong	Please select: M- move D- distances Q- quit		
U a Thompson	Thompson is now in the list. <b>(Exact text may vary)</b>	5	
M Wiles l	Wiles's position is -1, 0	3	
m Wiles L	Wiles's position is -3, 0		
M Xiong r	Xiong's position is 1, 0	5	
m Xiong s	Xiong is now stopped		
m Xiong s	Xiong is now started		
M Xiong r	Xiong's position is 2, 0		
M Thompson r	Thompson's position is 1, 0	5	
m Thompson U	Thompson's position is 1, 1		
m Thompson l	Thompson's position is 0, 1		
M Thompson d	Thompson's position is 0, 0		
u D Wiles	Wiles removed from list.	5	
m Wiles	Robot not in list.		
U a Wiles	Wiles is now in the list. <b>(Exact text may vary)</b>		
r Thompson Shauna	Thompson's name is now Shauna	5	
m Thompson	Program prints error message <b>(Exact text may vary)</b>		
m Shauna l	Shauna's position is -1, 0	5	
D	Shauna 5 Xiong 2 Wiles 0	10	
Q	Goodbye <b>(Exact text may vary)</b> <b>(Program should terminate)</b>	5	

Total Points: