

Project Sprint #3

Implement all the features that support a human player to play a simple or general SOS game against a human opponent and refactor your existing code if necessary. The minimum features include **choosing the game mode (simple or general)**, **choosing the board size**, **setting up a new game**, **making a move (in a simple or general game)**, and **determining if a simple or general game is over**. The following is a sample GUI layout. It is required to use a class hierarchy to deal with the common requirements of the Simple Game and the General Game. **If your code for Sprint 2 has not considered class hierarchy, it is time to refactor your code.**

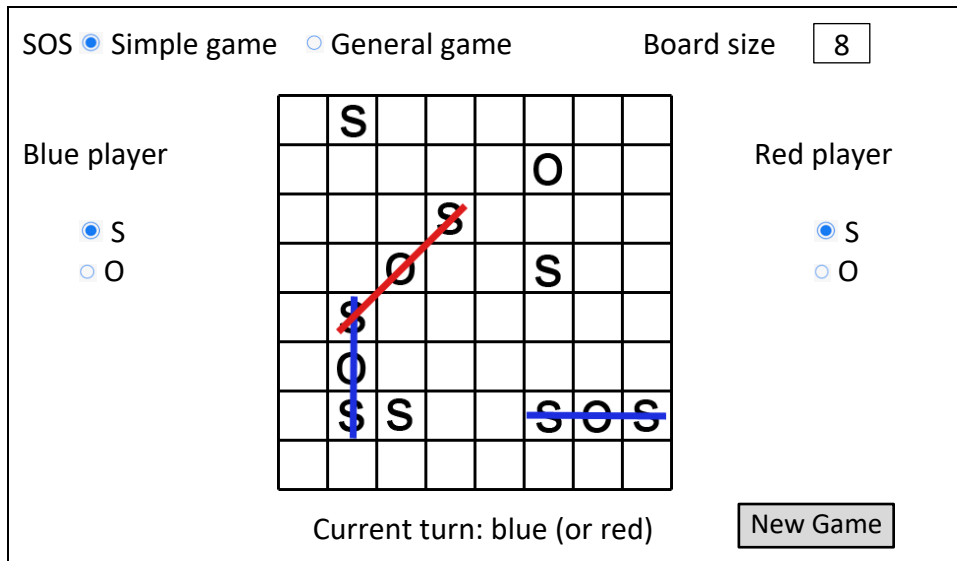


Figure 1. Sample GUI layout of the working program for Sprint 3

Deliverables: expand and improve your submission for sprint 2.

1. Demonstration (9 points)

Submit a video of no more than five minutes, clearly demonstrating the following features.

- A simple game that the blue player is the winner
- A simple draw game with the same board size as (a)
- A general game that the red player is the winner, and the board size is different from (a)
- A general draw game with the same board size as (c)
- Some automated unit tests for the simple game mode
- Some automated unit tests for the general game mode

In the video, you must explain what is being demonstrated.

2. Summary of Source Code (1 points)

Source code file name	Production code or test code?	# lines of code
Total		

You must submit all source code to get any credit for this assignment.

3. Production Code vs User stories/Acceptance Criteria (3 points)

Summarize how each of the user story/acceptance criteria is implemented in your production code (class name and method name etc.)

User Story ID	User Story Name
1	Choose a board size
2	Choose the game mode of a chosen board
3	Start a new game of the chosen board size and game mode
4	Make a move in a simple game
5	A simple game is over
6	Make a move in a general game
7	A general game is over

User Story ID	AC ID	Class Name(s)	Method Name(s)	Status (complete or not)	Notes (optional)
1	1.1				
	1.2				
	...				
2	2.1				
	...				

4. Tests vs User stories/Acceptance Criteria (3 points)

Summarize how each of the user story/acceptance criteria is tested by your test code (class name and method name) or manually performed tests.

User Story ID	User Story Name
1	Choose a board size
2	Choose the game mode of a chosen board
3	Start a new game of the chosen board size and game mode
4	Make a move in a simple game
5	A simple game is over
6	Make a move in a general game
7	A general game is over

4.1 Automated tests directly corresponding to some acceptance criteria

User Story ID	Acceptance Criterion ID	Class Name (s) of the Test Code	Method Name(s) of the Test Code	Description of the Test Case (input & expected output)
1	1.1			
	1.2			
	...			
2	2.1			
	...			

4.2 Manual tests directly corresponding to some acceptance criteria

User Story ID	Acceptance Criterion ID	Test Case Input	Test Oracle (Expected Output)	Notes
1	1.1			
	1.2			

	...			
2	2.1			
	...			

4.3 Other automated or manual tests not corresponding to the acceptance criteria

Number	Test Input	Expected Result	Class Name of the Test Code	Method Name of the Test Code

5. Describe how the class hierarchy in your design deals with the common and different requirements of the Simple Game and the General Game? (4 points)