Calico Jack Terminal Game Testing Schedule

	cution Report						
est							
se	Description	Step #	Step Description	Expected Result	Actual Result	Pass/Fail	Comments
01	Validate Pyt	thon o	code using PEP8 Online checker				
			Open run.py in GitHub at				
		1	https://github.com/MattBCoding/calico-jack	The run.py file displays all the python code			and the second
		2	Highlight all the code and press 'Ctrl' + 'C' to copy	the code is copied to the clipboard			Whilst warnings were return
		_	Navigate to the PEP8 online checker at	and code is depicted to the disposal d			multiple files, on investigati
		3	_	the validator			appears that the warning
			http://pep8online.com/	the validator			incorrect as in the pep8 guid
		4	Paste the code into the validator box				it specifically states to have the
							break before the binary ope
		5	Click on the check code button to submit the code	validator check returns no errors	validator check returns no errors or warnings	PASS	with screenshots on how it s
			repeat steps for each python file in the battleships		validator returned warnings for line breaks		look.
		6	directory	validator check returns no errors	before binary operators	PASS	IOOK.
			,		' '		
)2	Test Start M	1enu f	unctionality				•
		1	Navigate to https://calico-jack.herokuapp.com/	Game should start automatically			
		-		The pirate flag should show in the terminal along with the welcome message	game loads automatically	PASS	
		2	altale to side who a known to all	The phate hag should show in the terminal along with the welcome message	game loads automatically	LW22	
			click inside the terminal				
		3	press 'I' and then 'enter'	game should load the instructions screen	game loads the instructions screen	PASS	
		4	reload the game	the game should reload	game reloads	PASS	
		5	click inside the terminal				
			press 'Q' and then enter	game should say goodbye then quit the application. It should provide a message informing the user how to restart the game	game says goodbye and closes, it displays the		
		6			message on how to restart	PASS	
			reload the game by clicking on the run program button	the game should reload			
		7	reload the game by clicking on the run program button	the Ballie Should reload	game reloads		
		-	L		game reloaus		
		8	click inside the terminal				
		9	press 'y' and then 'enter'	game should start loading process	game changes screen	PASS	
				Next step message should appear asking the user 'How brave are ye? Shall we play a full game or a little one? Select a board size, enter			
				'6' for a little one or '10' for normal:	correct message displays	PASS	
		10	Incorrect Entry Validation				
			Repeat steps 1 + 2				
			input any value other than 'I' 'Y' or 'Q'				
			press 'enter'	Game should provide an error message.	game provides an error message	PASS	
			press enter			PASS	
				Argh! You woke me up for nothin I should make ye walk the plank Wait, shall we try that again?	correct message displays		
				and repeat the input message	input message repeats	PASS	
3	Test functio	nality	from Instructions Screen				
		1	Navigate to https://calico-jack.herokuapp.com/	Game should start automatically	game starts automatically	PASS	
				The pirate flag should show in the terminal along with the welcome message	pirate flag shows correctly	PASS	
		2	click inside the terminal				
		3	press 'I' and then 'enter'				
		-		game should load the instructions screen	instructions screen loads	PASS	
			press 'Q' and then enter	Bonne should have the manufacturin server		1 1133	
		4	press Q and then enter			PASS	
		4		game should say goodbye then quit the application. It should provide a message informing the user how to restart the game	game quits and displays correct message	PASS	
		5	reload the game by clicking on the run program button	the game should reload	game reloads		
		6	click inside the terminal				
		7	press 'I' and then 'enter'				
				game should load the instructions screen	game loads the instructions screen	PASS	
		8	press 'y' and then 'enter'	game should start loading process	game changes screen and displays correct		
		Ü	press y and then enter		game changes screen and displays correct		
				Next step message should appear asking the user 'How brave are ye? Shall we play a full game or a little one? Select a board size, enter			
				'6' for a little one or '10' for normal:			
		9	Incorrect Entry Validation				
			Repeat steps 5 + 6 + 7		correct error message displays	PASS	
			input any value other than 'I' 'Y' or 'Q'				
			press 'enter'	Game should provide an error message.			
			In the state of th				1

				and repeat the input message		1
TC004	Test Board	size se	election functionality	Proceedings of the condition of the cond		
10001	Test Board	1	Navigate to https://calico-jack.herokuapp.com/	Game should start automatically		
		1	Navigate to https://canco-jack.nerokuapp.com/	The pirate flag should show in the terminal along with the welcome message	game loads automatically	PASS
		2	click inside the terminal	The pirace hag should show in the terminal along with the welcome message	game loads automatically	1733
		3	press 'y' and then 'enter'	game should start loading process	game changes screen correctly	PASS
		3	press y and then enter		game changes screen correctly	PASS
				Next step message should appear asking the user 'How brave are ye? Shall we play a full game or a little one? Select a board size, enter		
		_		'6' for a little one or '10' for normal:	correct message displays	PASS
		4	press '6' and then 'enter'	A message should appear related to the size of the board. 'A little one, suppose you want it easy as well?'	correct message displays	PASS
				game should ask you to select difficulty level with options of either easy normal or hard	correct message displays	PASS
		5	press 'e' for easy and then 'enter'	game should set difficulty level to easy and then print a playing board for the user	correct board displays	PASS
				confirm playing board is 6 tiles x 6 tiles		
				board should be labelled 0 - 5 along the top, and A - F down the side		
		6	repeat steps for 'n' difficulty	confirm playing board appears correctly	no change in results	PASS
		7	repeat steps for 'h' difficulty	confirm playing board appears correctly	no change in results	PASS
		8	reload the game by clicking on the run program button	the game should reload		
					game reloads	PASS
		9	click inside the terminal			
		10	press 'y' and then 'enter'	game should start loading process		
				Next step message should appear asking the user 'How brave are ye? Shall we play a full game or a little one? Select a board size, enter		
				'6' for a little one or '10' for normal:	correct message displays	PASS
		11	press '10' and then 'enter'	A message should appear related to the size of the board. 'Hmm a full one, ye be a brave pirate tryin to impress me? If you really want		
				to impress me, you should try it on hard.	correct message displays	PASS
				game should ask you to select difficulty level with options of either easy normal or hard	correct message displays	PASS
		12	press 'e' for easy and then 'enter'	game should set difficulty level to easy and then print a playing board for the user	correct board displays	PASS
			· · · · · · · · · · · · · · · · · · ·	confirm playing board is 10 tiles x 10 tiles		
				board should be labelled 0 - 9 along the top, and A - J down the side		
		13	repeat steps for 'n' difficulty	confirm playing board appears correctly	no change in results	PASS
		14	repeat steps for 'h' difficulty	confirm playing board appears correctly	no change in results	PASS
TC005	Tost Board		election - input validation		1 0	
10005	Test Board	1	Navigate to https://calico-jack.herokuapp.com/	Game should start automatically	1	
		1	Navigate to https://canco-jack.nerokuapp.com/	The pirate flag should show in the terminal along with the welcome message	game correctly loads	PASS
		_		The pirate riag should show in the terminal along with the welcome message	game correctly loads	PASS
		2	click inside the terminal			
		3	press 'y' and then 'enter'	game should start loading process		
				Next step message should appear asking the user 'How brave are ye? Shall we play a full game or a little one? Select a board size, enter		PASS
		_		'6' for a little one or '10' for normal:	correct message shows	
		4	input any value other than '6' or '10'	Game should display error message	the correct error message shows	PASS
				Don't be getting all artistic with the choices like some scurvy landlover. It's either '6' or '10' that be it. Just the number! Try again!		
				Game should repeat the input message	game shows input message again	PASS
		5	input correct value of '6'	A message should appear related to the size of the board. 'A little one, suppose you want it easy as well?'	game shows the correct message	PASS
1				game should ask you to select difficulty level with options of either easy normal or hard	correct message shows	PASS
			press 'e' for easy and then 'enter'	game should set difficulty level to easy and then print a playing board for the user		
				confirm playing board is 6 tiles x 6 tiles	correct board shows	PASS
				board should be labelled 0 - 5 along the top, and A - F down the side		
	1 1	6	repeat steps 1 - 4		1	
		0	Incharacter			
		7	press '10' and then 'enter'	A message should appear related to the size of the board. 'Hmm a full one, ye be a brave pirate tryin to impress me? If you really want		
			1 ' '	A message should appear related to the size of the board. 'Hmm a full one, ye be a brave pirate tryin to impress me? If you really want to impress me, you should try it on hard.	the correct message shows	PASS
			1 ' '		the correct message shows correct input message shows	PASS PASS
			1 ' '	to impress me, you should try it on hard.	_	
		7	press '10' and then 'enter'	to impress me, you should try it on hard. game should ask you to select difficulty level with options of either easy normal or hard	_	l l
		7	press '10' and then 'enter'	to impress me, you should try it on hard. game should ask you to select difficulty level with options of either easy normal or hard game should set difficulty level to easy and then print a playing board for the user	correct input message shows	PASS
TCOOS	Test shin cr	7	press '10' and then 'enter' press 'e' for easy and then 'enter'	to impress me, you should try it on hard. game should ask you to select difficulty level with options of either easy normal or hard game should set difficulty level to easy and then print a playing board for the user confirm playing board is 10 tiles x 10 tiles	correct input message shows	PASS
TC006	Test ship cro	7 8 eation	press '10' and then 'enter' press 'e' for easy and then 'enter' and placement for 6x6 board	to impress me, you should try it on hard. game should ask you to select difficulty level with options of either easy normal or hard game should set difficulty level to easy and then print a playing board for the user confirm playing board is 10 tiles x 10 tiles board should be labelled 0 - 9 along the top, and A - J down the side	correct input message shows	PASS
TC006	Test ship cro	7	press '10' and then 'enter' press 'e' for easy and then 'enter'	to impress me, you should try it on hard. game should ask you to select difficulty level with options of either easy normal or hard game should set difficulty level to easy and then print a playing board for the user confirm playing board is 10 tiles x 10 tiles board should be labelled 0 - 9 along the top, and A - J down the side Game should start automatically	correct input message shows correct board shows	PASS PASS
TC006	Test ship cro	7 8 eation	press '10' and then 'enter' press 'e' for easy and then 'enter' and placement for 6x6 board Navigate to https://calico-jack.herokuapp.com/	to impress me, you should try it on hard. game should ask you to select difficulty level with options of either easy normal or hard game should set difficulty level to easy and then print a playing board for the user confirm playing board is 10 tiles x 10 tiles board should be labelled 0 - 9 along the top, and A - J down the side	correct input message shows	PASS
TC006	Test ship cr	7 8 eation 1 2	press '10' and then 'enter' press 'e' for easy and then 'enter' and placement for 6x6 board Navigate to https://calico-jack.herokuapp.com/ click inside the terminal	to impress me, you should try it on hard. game should ask you to select difficulty level with options of either easy normal or hard game should set difficulty level to easy and then print a playing board for the user confirm playing board is 10 tiles x 10 tiles board should be labelled 0 - 9 along the top, and A - J down the side Game should start automatically The pirate flag should show in the terminal along with the welcome message	correct input message shows correct board shows	PASS PASS
TC006	Test ship cr	7 8 eation	press '10' and then 'enter' press 'e' for easy and then 'enter' and placement for 6x6 board Navigate to https://calico-jack.herokuapp.com/	to impress me, you should try it on hard. game should ask you to select difficulty level with options of either easy normal or hard game should set difficulty level to easy and then print a playing board for the user confirm playing board is 10 tiles x 10 tiles board should be labelled 0 - 9 along the top, and A - J down the side Game should start automatically	correct input message shows correct board shows	PASS PASS

1	1	1		1	1
			Next step message should appear asking the user 'How brave are ye? Shall we play a full game or a little one? Select a board size, enter	savraet massage shave	PASS
			'6' for a little one or '10' for normal:	correct message shows	
	4	input correct value of '6'	A message should appear related to the size of the board. 'A little one, suppose you want it easy as well?'	correct message shows	PASS
			game should ask you to select difficulty level with options of either easy normal or hard	correct message shows	PASS
	5	press 'e' for easy and then 'enter'	game should set difficulty level to easy and then print a playing board for the user		
			confirm playing board is 6 tiles x 6 tiles		
			game should display the message 'Now we need to position our ships ready for battle! Are ye ready? Press 'Enter' to start!		
				correct message shows	PASS
	6	press 'enter' to start ship placement	game should display a message informing the user which ship needs to be placed and how long the ship is.		
		,	The first ship needed to be placed for a 6x6 board should be a Lugger which is 3 tiles long	correct message shows	PASS
	7	Confirm correct ship placement message is displayed	Message should read 'Please select the starting location for your Lugger, it is 3 tiles long, in the format of row then column e.g. 'E4':	derrect message snows	17.55
	'	Committeet strip placement message is displayed	inessage should read riesse select the starting location for your Eugger, it is 5 thes long, in the format of row their column e.g. L4.	annual massage shave	PASS
	_			correct message shows	
	8	input 'F0' as the coordinate and press 'enter'	The board should refresh and appear with the ship placed in F0, F1 and F2 tile locations indicated by S.	ship displays in correct location	PASS
			The message to place the next ship should appear. It should be a Schooner 3 tiles long	correct message shows	PASS
	9	input 'E0' as the coordinate and press 'enter'	The board should refresh and appear with the ship placed in E0, E1 and E2 tile locations indicated by S.	ship displays in correct location	PASS
			The message to place the next ship should appear. It should be a Brigantine 2 tiles long	correct message shows	PASS
	10	input 'D0' as the coordinate and press 'enter'	The board should refresh with the ship placed in D0 and D1 tile locations indicated by S	ship displays in correct location	PASS
			A message should appear to warn the user that the enemy has arrived!	correct message shows	PASS
			After three seconds the screen should refresh with the player board now on the right hand side and a new blank board appearing on the		
			left hand side	new screen displays correctly	PASS
			The game should display a message to the user asking them 'What are your orders? Where do you want to target? Select the location in	lien sereen displays correctly	1,155
			the format of row then column e.g. 'E4':	correct message shows	PASS
cl T	1.		the formation row then column e.g. E4:	correct message snows	1700
6b Test		n and placement for 6x6 board			
	11	repeat steps 1-7			
	12	input 'A0' as the coordinate and press 'enter'	As the ship can be placed from this location either horizontally or vertically, it should display a message asking the user which		
			orientation they want.		
			The message should read 'Would you like to place this ship horizontally, left to right, or vertically, downwards from starting location?		
			Enter 'h' for horizontally, 'v' for vertically:	correct message shows	PASS
	13	input 'V' for vertically and press 'enter'	The board should refresh with the ship displayed in a vertical orientation from 'A0'	ship displays in correct location	PASS
	13	input v for vertically and press enter	The game should ask the user to position the second ship and provide the name and length of the ship	correct message shows	PASS
				correct message snows	PA33
	14	input 'D5' as the coordinate and press 'enter'	As the ship will not fit horizontally from this location, it should position the ship vertically automatically		
				game automatically determines orientation	PASS
			The board should refresh with the ship displayed in a vertical orientation from 'D5'	ship displays in correct location	PASS
			The game should ask the user to position the third ship and provide the name and length of the ship	correct message shows	PASS
	15	input 'F4' as the coordinate and press 'enter'	As the ship can not be placed vertically from this position, and horizontally it would collide with another ship an error message should be		
			displayed informing the user that the ship can not be placed in this location	correct message shows	PASS
			The game board should refresh		
			An error message should display 'Can not place ship, only option from this location is horizontal which would hit another ship. Try a		
			different location	annual massage shave	PASS
				correct message shows	
			The game should repeat the input location message for the same ship	input message is repeated	PASS
	16	input 'C5' as the coordinate and press 'enter'	As the ship can not be place horizontally from this location, and vertically it would collide with another ship an error message should be		
			displayed informing the user that the ship can not be placed in this location	correct message shows	PASS
			The game board should refresh		
			An error message should display 'Can not place ship, only option from this location is vertical which would hit another ship. Try a		
			different location.	correct message shows	PASS
			The game should repeat the input location message for the same ship	correct message shows	PASS
	17	input 'C2' as the coordinate and press 'enter'	As the ship can be placed from this location either horizontally or vertically, it should display a message asking the user which	Correct message snows	1703
	17	input C2 as the coordinate and press enter			
			orientation they want.		
			The message should read 'Would you like to place this ship horizontally, left to right, or vertically, downwards from starting location?		
			Enter 'h' for horizontally, 'v' for vertically:	correct message shows	PASS
	18	input 'H' for horizontally and press 'enter'	The board should refresh with the ship displayed in a horizontal orientation from C2 The warning message about the enemy arriving		
		1	should display	ship displays in correct location	PASS
		1	The state of the s		·
fic Test	shin creation	n and placement for 6x6 hoard			
oc Test		n and placement for 6x6 board		I	
l6c Test	19	Repeat steps 1-7			
76c Test			As the ship can be placed from this location either horizontally or vertically, it should display a message asking the user which		
76c Test	19	Repeat steps 1-7	As the ship can be placed from this location either horizontally or vertically, it should display a message asking the user which orientation they want.		
GC Test	19	Repeat steps 1-7			
Test	19	Repeat steps 1-7	orientation they want. The message should read 'Would you like to place this ship horizontally, left to right, or vertically, downwards from starting location?	correct message shows	PASS
76c Test	19	Repeat steps 1-7	orientation they want.	correct message shows	PASS

1 1	1	I		1	
			It can only be 'H' for horizontally or 'V' for vertically There are no other options, try again!	correct error message shows	PASS
			The game should then repeat the input message for the first ship	correct message shows	PASS
	2	input a coordinate that does not follow the correct forma	The game should refresh the screen and repeat the error message regarding the format the input needs to be.		
			The starting location needs to be entered in the format of row then column, e.g. 'F4' or 'A2' a letter followed by a number, no spaces,		
			dashes, dots or bottles of rum before after or in the middle. Try again!	correct error message shows	PASS
	12	input 'A0' as the coordinate and press 'enter'	As the ship can be placed from this location either horizontally or vertically, it should display a message asking the user which		
			orientation they want.		
			The message should read 'Would you like to place this ship horizontally, left to right, or vertically, downwards from starting location?		
			Enter 'h' for horizontally, 'v' for vertically:	correct message shows	PASS
	. ا			_	PASS
	1	input 'b' instead of 'h' or 'v' and press 'enter'	As the user input an incorrect value, the game should inform the user that the input can only be 'H' for horizontal or 'V' for vertical, there		
			are no other options and ask them to try again.	correct error message shows	PASS
			The game should then repeat the input message for the first ship		
	2	input 'A0' as the coordinate and press 'enter'	As the ship can be placed from this location either horizontally or vertically, it should display a message asking the user which		
			orientation they want.		
			The message should read 'Would you like to place this ship horizontally, left to right, or vertically, downwards from starting location?		
			Enter 'h' for horizontally, 'v' for vertically:	correct message shows	PASS
	2	6 input 'h' for horizontal and press 'enter'	The game should reprint the board displaying the ship at the correct location and ask the user to input the location for the next ship.	ship displays in correct location, correct next	
			Confirm the ship is the correct ship, it should be a Schooner with length 3	ship message is displayed	PASS
		7 input 'A0' as the coordinate and press 'enter'	As the ship will not fit at this location due to another ship being in the way, the user should receive an error message informing them		
			that it will not fit and asking them to try again	correct error message shows	PASS
			The game should repeat the input message asking the user to select a location for the second ship.	correct input message shows	PASS
			confirm the ship has the correct name	correct ship is included	PASS
				correct length is included	PASS
	. ا		confirm the ship has the correct length	correct length is included	PASS
	-	input 'b0' as the coordinate and press 'enter'	As the ship can be placed either horizontally or vertically from this location, the game should ask the user for their choice.		
				correct orientation message displays	PASS
	2	9 input 'h' for horizontal and press 'enter'	The game should reprint the board displaying the ship at the correct location and ask the user to input the location for the next ship.		
			Confirm the ship is the correct ship, it should be a Brigantine with a length of 2 tiles	correct message shows	PASS
	[3	input 'c0' as the coordinate and press 'enter'	As the ship can be placed either horizontally or vertically from this location, the game should ask the user for their choice.		
				correct orientation message displays	PASS
	3	input 'h' for horizontal and press 'enter'	The board should refresh with the ship displayed in a horizontal orientation from C0 The warning message about the enemy arriving		
			should display	correct message shows	PASS
			Then the screen should refresh with both the targetting radar and the player board appearing along with instructions to the user to tell		
			them to choose a target location.	correct boards show	PASS
	13	repeat steps but with 'n' normal difficulty selected	There should be no difference in response	no difference in results	PASS
	13	repeat steps but with 'h' hard difficulty selected	There should be no difference in response	no difference in results	PASS
TC007 Te:		ation and placement for 10x10 board			
10007	st stilp cit	Navigate to https://calico-jack.herokuapp.com/	Game should start automatically		
		1 Mavigate to https://canco-jack.nerokuapp.com/	· ·		DACC
		2 Aliah tasida Aha Associad	The pirate flag should show in the terminal along with the welcome message	correct message shows	PASS
		2 click inside the terminal			
		3 press 'y' and then 'enter'	game should start loading process	screen changes correctly	PASS
			Next step message should appear asking the user 'How brave are ye? Shall we play a full game or a little one? Select a board size, enter		
			'6' for a little one or '10' for normal:	correct message shows	PASS
		4 input correct value of '10'	A message should appear related to the size of the board. 'Hmm a full one, ye be a brave pirate tryin to impress me? If you really want		
			to impress me, you should try it on hard. Select your difficulty, enter 'E' for easy, 'N' for normal or 'H' for hard: '		
				correct message shows	PASS
			game should ask you to select difficulty level with options of either easy normal or hard	correct message shows	PASS
		5 press 'e' for easy and then 'enter'	game should set difficulty level to easy and then print a playing board for the user		
		·	confirm playing board is 10 tiles x 10 tiles	correct board displays	PASS
			board should be labelled 0 - 9 along the top, and A - J down the side		
			game should display the message 'Now we need to position our ships ready for battle! Are ye ready? Press 'Enter' to start!		
			part and the part and the second to position out amplified your design in the second to state.	correct message shows	PASS
		6 press 'enter' to start ship placement	game should display a message informing the user which ship needs to be placed and how long the ship is.	The state of the s	
		press enter to start ship placement		correct message shows	PASS
		7 Confirm count him decount account in the	The first ship needed to be placed for a 10x10 board should be a Pinnace which is 5 tiles long	correct message shows	FM33
		7 Confirm correct ship placement message is displayed	Message should read 'Please select the starting location for your Pinnace, it is 5 tiles long, in the format of row then column e.g. 'E4':	1	
				correct message shows	PASS
		8 input 'JO' as the coordinate and press 'enter'	The board should refresh and appear with the ship placed in J0, J1, J2, J3 and J4 tile locations indicated by S.	ship displays correctly	PASS
			The message to place the next ship should appear. It should be a Sloop 4 tiles long	correct ship message shows	PASS
		9 input 'I0' as the coordinate and press 'enter'	The board should refresh and appear with the ship placed in I0, I1, I2 and I3 tile locations indicated by S.	ship displays correctly	PASS
			The message to place the next ship should appear. It should be a Lugger 3 tiles long	correct ship message shows	PASS
				· ·	

I	10	input 'H0' as the coordinate and press 'enter'	The board should refresh with the ship placed in H0, H1 and H2 tile locations indicated by S	ship displays correctly	PASS
	10	linput no as the coordinate and press enter	The message to place the next ship should appear. It should be a Schooner 3 tiles long	correct ship message shows	PASS
	11	input 'G0' as the coordinate and press 'enter'		ship displays correctly	PASS
	11	imput Go as the coordinate and press enter	The board should refresh with the ship placed in GO, G1 and G2 tile locations indicated by S		PASS
	4.0		The message to place the next ship should appear. It should be a Brigantine 2 tiles long	correct ship message shows	
	12	input 'F0' as the coordinate and press 'enter'	The board should refresh with the ship placed in the F0 and F1 tile locations.	ship displays correctly	PASS
			The message to place the next ship should appear. It should also be a Brigantine 2 tiles long		
	13	input 'E0' as the coordinate and press 'enter'	The board should refresh with the ship placed in the E0 and E1 tile locations.	ship displays correctly	PASS
			A message should appear to warn the user that the enemy has arrived!	correct message shows	PASS
			After three seconds the screen should refresh with the player board now on the right hand side and a new blank board appearing on the		
			left hand side	correct message shows	PASS
			The game should display a message to the user asking them 'What are your orders? Where do you want to target? Select the location in		
			the format of row then column e.g. 'E4':	correct message shows	PASS
Test ship	p creation	and placement for 10x10 board			<u> </u>
	14	Repeat steps 1 -7	Game should start automatically		PASS
	15	input 'A0' as the coordinate and press 'enter'	As the ship can be placed from this location either horizontally or vertically, it should display a message asking the user which		
			orientation they want.		
			The message should read 'Would you like to place this ship horizontally, left to right, or vertically, downwards from starting location?		
			Enter 'h' for horizontally, 'v' for vertically:	correct message shows	PASS
	1.0	in a stable for continuity and assess to start			PASS
	16	input 'V' for vertically and press 'enter'	The board should refresh with the ship displayed in a vertical orientation from 'AO'	ship displays correctly	
		L	The game should ask the user to position the second ship and provide the name and length of the ship	correct message shows	PASS
	17	input 'D9' as the coordinate and press 'enter'	As the ship will not fit horizontally from this location, it should position the ship vertically automatically	ship positions automatically	PASS
			The board should refresh with the ship displayed in a vertical orientation from 'D9'	ship displays correctly	PASS
			The game should ask the user to position the third ship and provide the name and length of the ship	correct message shows	PASS
	18	input 'G7' as the coordinate and press 'enter'	As the ship will not fit horizontally from this location, it should position the ship vertically automatically	ship positions automatically	PASS
			The board should refresh with the ship displayed in a vertical orientation from 'G7'	ship displays correctly	PASS
			The game should ask the user to position the fourth ship and provide the name and length of the ship	correct message shows	PASS
	19	input 'I5' as the coordinate and press 'enter'	As the ship can not be placed vertically from this position, and horizontally it would collide with another ship an error message should be	derrect message snows	17.55
	13	linput 15 as the coordinate and press enter	displayed informing the user that the ship can not be placed in this location	correct message shows	PASS
				_	
			The game board should refresh	board refreshes	PASS
			An error message should display 'Can not place ship, only option from this location is horizontal which would hit another ship. Try a		
			different location	correct message shows	PASS
			The game should repeat the input location message for the same ship	correct message shows	PASS
	20	input 'B9' as the coordinate and press 'enter'	As the ship can not be place horizontally from this location, and vertically it would collide with another ship an error message should be		
			displayed informing the user that the ship can not be placed in this location	correct message shows	PASS
			The game board should refresh	board refreshes	PASS
			An error message should display 'Can not place ship, only option from this location is vertical which would hit another ship. Try a		
			different location.	correct message shows	PASS
			The game should repeat the input location message for the same ship	correct message shows	PASS
	21	input 'C2' as the coordinate and press 'enter'		correct message snows	1733
	21	imput 62 as the coordinate and press enter	As the ship can be placed from this location either horizontally or vertically, it should display a message asking the user which	correct message shows	PASS
			orientation they want.	correct message snows	rass
			The message should read 'Would you like to place this ship horizontally, left to right, or vertically, downwards from starting location?	1	
			Enter 'h' for horizontally, 'v' for vertically:	correct message shows	PASS
	22	input 'H' for horizontally and press 'enter'	The board should refresh with the ship displayed in a horizontal orientation from C2	ship displays correctly	PASS
			The game should ask the user to position the fifth ship and provide the name and length of the ship It should be a Brigantine with length		
			2 tiles	correct message shows	PASS
	23	input 'J0' as the coordinate and press 'enter'	As the ship can only be placed horizontally from this location, the game should place the ship.	game places ship automatically	PASS
			The game board should refresh	board refreshes	PASS
			The new game board should display the ship starting in the location 'JO'	ship displays correctly	PASS
			The game should ask the user to position the sixth ship, it should also be a Brigatine with a length of 2 tiles.	correct message shows	PASS
	24	input 10' as the coordinate and proce lanter!		Correct message snows	1755
	24	input 'J0' as the coordinate and press 'enter'	As there is already a ship at this location, the new ship can not be placed. The game should return an error message informing the user	correct mossage shows	PASS
			that the only option from this location is horizontal which would collide with another ship.	correct message shows	***
			The game board should refresh	board refreshes	PASS
			The game should repeat the input location message for the same ship	correct message shows	PASS
	25	input 'J2' as the coordinate and press 'enter'	As the ship can only be placed horizontally from this location, the game should place the ship.	game places ship automatically	PASS
			The game board should refresh	board refreshes	PASS
			The new game board should display the ship starting in the location 'J2'	ship displays correctly	PASS
			The warning message about the enemy arriving should display for three seconds	correct message shows	PASS
			Then the screen should refresh with both the targetting radar and the player board appearing along with instructions to the user to tell	screen refreshes correctly with new boards	
			them to choose a target location.	displayed	PASS
1	26	repeat steps above with all inputs in lowercase	there should be no difference in the resulting action	no difference in results	PASS

	27	repeat steps above for difficulty of 'N'	there should be no difference in the resulting action	no difference in results	PASS
	28	repeat steps above for difficulty of 'H'	there should be no difference in the resulting action	no difference in results	PASS
Test shot	recogni	ition/turn loop/ AI shot - easy difficulty 10x10	D board		
		Navigate to https://calico-jack.herokuapp.com/	Game should start automatically		
	-	Transport to merps, y cance jacking on dappicom,	The pirate flag should show in the terminal along with the welcome message	game displays correctly	PASS
	2	click inside the terminal	The processing should show if the terminal along with the welcome message	game displays correctly	1733
	3		and the state of t		
	3	press 'y' and then 'enter'	game should start loading process		
			Next step message should appear asking the user 'How brave are ye? Shall we play a full game or a little one? Select a board size, enter		
			'6' for a little one or '10' for normal:	correct message shows	PASS
	4	input correct value of '10'	A message should appear related to the size of the board. 'Hmm a full one, ye be a brave pirate tryin to impress me? If you really want		
			to impress me, you should try it on hard. Select your difficulty, enter 'E' for easy, 'N' for normal or 'H' for hard: '		
				correct message shows	PASS
			game should ask you to select difficulty level with options of either easy normal or hard	correct message shows	PASS
	5	press 'e' for easy and then 'enter'	game should set difficulty level to easy and then print a playing board for the user		
		France Control Contr	confirm playing board is 10 tiles x 10 tiles	board displays correctly	PASS
			board should be labelled 0 - 9 along the top, and A - J down the side		
			9 17		
			game should display the message 'Now we need to position our ships ready for battle! Are ye ready? Press 'Enter' to start!		PASS
				correct message shows	
	6	press 'enter' to start ship placement	game should display a message informing the user which ship needs to be placed and how long the ship is.	correct message shows	PASS
			The first ship needed to be placed for a 10x10 board should be a Pinnace which is 5 tiles long	correct message shows	PASS
	7	place all the ships on the board in valid locations and	Once completed the game should display a message informing the user that the enemy has arrived and then display the game boards		
		orientations	and instructions	correct message shows	PASS
			The game will ask the user 'What are your orders? Where do you want to target? Select the location in the format of row then column		
			e.g. 'E4':	correct message shows	PASS
	8	enter 'A11' as the target location	A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this	_	
	"		already, it needs to be in the format of 'E4' Letter then Number, this is not a time to act the fool, try again!	correct message shows	PASS
				_	
	_		The game should repeat the target location message asking for the input	correct message shows	PASS
	9	enter 'A0' as the target location	the game should respond with a message detailing the result of the shot. Either ' Nothing but water! What a waste of some perfectly		
			good iron. Your turn is over! You missed!' or a Hit message ' Direct Hit, the sound of breaking wood and screams is unmistakable!'		
				correct message shows	PASS
			The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar	boards refresh showing results of shots	PASS
			The game should also show the result of the AI shot on the players board	boards show AI shot	PASS
			The game should display below the boards a message detailing the result of the AI shot	correct message shows	PASS
			If the AI misses it should display a yellow M	correct symbol shown	PASS
			If the AI hits it should display a red #		
			The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS
	10	ontor 'AO' as the target lesstics		Correct message snows	1.733
	10	enter 'A0' as the target location	As you have already targetted this location the game should provide an error message to the user	boards refresh servest!	DACC
			The game should reprint the game boards	boards refresh correctly	PASS
			The game should inform the user 'You have already fired there, are you trying to waste our Cannonballs? You better get your head in the		
			game pirate, lets try this again!'	correct message shows	PASS
			The game should then repeat the message asking the user to input their target coords	correct message shows	PASS
	11	enter a different valid location	the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly		
			good iron. Your turn is over! You missed!' or a Hit message ' Direct Hit, the sound of breaking wood and screams is unmistakable!'		
			- '	correct message shows	PASS
			The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar	boards refresh showing results of shots	PASS
			The game should also show the result of the Al shot on the players board	correct message shows	PASS
				correct message shows	PASS
			The game should display below the boards a message detailing the result of the AI shot		
			The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS
			If the AI misses it should display a yellow M	correct symbol shown	PASS
			If the AI hits it should display a red #		
			The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS
	12	keep entering valid location until you obtain a hit	the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly		
		·	good iron. Your turn is over! You missed!' or a Hit message ' Direct Hit, the sound of breaking wood and screams is unmistakable!'		
				correct message shows	PASS
			The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar	boards refresh correctly showing results of	
			The game should refresh the sounds with showing the result of the shot taken by the dark of the targetting fault	shots	PASS
			The game should also show the result of the AI shot on the players board	boards show AI shot	PASS
			The game should display below the boards a message detailing the result of the AI shot	correct message shows	PASS
			The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS
	1		If the AI misses it should display a yellow M	correct symbol shown	PASS

1	i			1	1	1
			If the AI hits it should display a red #	correct symbol shown	PASS	
			The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS	
	13	If the computer gets a hit on easy mode, it should	confirm AI is randomly selecting locations - by process of elimination. If AI is selecting locations based on a pattern, or based on previous			
		randomly select the next location	hits it would select locations around previous hits.	correct targetting method evident	PASS	
	14	confirm AI will select all rows and columns	Repeatedly play the game to ensure that the AI will fire at each row and each column. Ensuring that it will select the corners, and edge			took too long to test. Investiga
			tile locations	AI will target each cell	PASS	quicker methods to confirm
	15	confirm when a ship has each tile location hit, it sinks	Confirm that when you or the AI hit every tile location for a ship, it displays the message that the ship has been sunk!			
	13	commit when a simp has each the location may to similar	communication for the forest fire forest or the fir	correct message shows	PASS	
	16	confirm computer is not selecting a previous location	confirm that for each turn loop the AI selects a new location by counting the number of shots displayed on the player board. Each turn	correct message snows	17.55	
	10	committee of the computer is not selecting a previous location		At door not coloct provious colls	PASS	
	4-7	6 // 15.	should increase the number by one	Al does not select previous cells	PASS	
	17	confirm win/lose condition	Once either all the AI ships have been destroyed or all the Player ships have been destroyed, the game should present the end game		2.00	
0 T+		ition / town loon / Allahat was madel difficulty 10	screen.	win/lose condition triggered correctly	PASS	
9 Test s		hition/ turn loop/ Al shot - normal difficulty 10		1		T
	1	Navigate to https://calico-jack.herokuapp.com/	Game should start automatically		2.00	
			The pirate flag should show in the terminal along with the welcome message	correct message shows	PASS	
	2	click inside the terminal				
	3	press 'y' and then 'enter'	game should start loading process			
			Next step message should appear asking the user 'How brave are ye? Shall we play a full game or a little one? Select a board size, enter			
			'6' for a little one or '10' for normal:	correct message shows	PASS	
	4	input correct value of '10'	A message should appear related to the size of the board. 'Hmm a full one, ye be a brave pirate tryin to impress me? If you really want			
			to impress me, you should try it on hard. Select your difficulty, enter 'E' for easy, 'N' for normal or 'H' for hard: '			
				correct message shows	PASS	
			game should ask you to select difficulty level with options of either easy normal or hard	correct message shows	PASS	
	5	press 'n' for normal and then 'enter'	game should set difficulty level to normal and then print a playing board for the user			
]	press it for normal and their enter	confirm playing board is 10 tiles x 10 tiles	board displays correctly	PASS	
			, , ,	board displays correctly	1733	
			board should be labelled 0 - 9 along the top, and A - J down the side			
			game should display the message 'Now we need to position our ships ready for battle! Are ye ready? Press 'Enter' to start!			
				correct message shows	PASS	
	6	press 'enter' to start ship placement	game should display a message informing the user which ship needs to be placed and how long the ship is.			
			The first ship needed to be placed for a 10x10 board should be a Pinnace which is 5 tiles long			
	7	place all the ships on the board in valid locations and	Once completed the game should display a message informing the user that the enemy has arrived and then display the game boards			
		orientations	and instructions	correct message shows	PASS	
			The game will ask the user 'What are your orders? Where do you want to target? Select the location in the format of row then column			
			eg. [54]:	correct message shows	PASS	
	8	enter 'A11' as the target location	A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this	correct message snows	17.55	
	"	enter ATT as the target location	already, it needs to be in the format of 'E4' Letter then Number, this is not a time to act the fool, try again!	correct message shows	PASS	
			The game should repeat the target location message asking for the input	correct message snows	1733	
	9	enter 'A0' as the target location	the game should respond with a message detailing the result of the shot. Either ' Nothing but water! What a waste of some perfectly			
			good iron. Your turn is over! You missed!' or a Hit message ' Direct Hit, the sound of breaking wood and screams is unmistakable!'			
			The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar	boards refresh correctly	PASS	
			The game should also show the result of the AI shot on the players board			
			The game should display below the boards a message detailing the result of the AI shot	correct symbol shown	PASS	
			If the AI misses it should display a yellow M			
			If the AI hits it should display a red #			
			The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS	
	10	enter 'A0' as the target location	As you have already targetted this location the game should provide an error message to the user	correct message shows	PASS	
	10		The game should reprint the game boards	boards refresh correctly	PASS	
			The game should inform the user 'You have already fired there, are you trying to waste our Cannonballs? You better get your head in the	· ·	1,733	
					PASS	
			game pirate, lets try this again!	correct message shows		
			The game should then repeat the message asking the user to input their target coords	correct message shows	PASS	
		enter a different valid location	the game should respond with a message detailing the result of the shot. Either ' Nothing but water! What a waste of some perfectly			
	11	enter a unierent vanu location		T. Control of the Con		
	11	enter a unierent vand location	good iron. Your turn is over! You missed!' or a Hit message ' Direct Hit, the sound of breaking wood and screams is unmistakable!'			
	11	enter a different valid location	good iron. Your turn is over! You missed!' or a Hit message ' Direct Hit, the sound of breaking wood and screams is unmistakable!'	correct message shows	PASS	
	11	enter a university vanu location	good iron. Your turn is over! You missed!' or a Hit message ' Direct Hit, the sound of breaking wood and screams is unmistakable!' The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar	correct message shows boards refresh correctly	PASS PASS	
	11	enter a univerent vanu location	The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar	_		
	11	enter a universit vanu location	The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar. The game should also show the result of the AI shot on the players board.	boards refresh correctly correct symbol shown	PASS	
	11	enter a universit vanu location	The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar The game should also show the result of the AI shot on the players board The game should display below the boards a message detailing the result of the AI shot	boards refresh correctly correct symbol shown correct message shows	PASS PASS PASS	
	11	enter a universit vanu location	The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar. The game should also show the result of the AI shot on the players board.	boards refresh correctly correct symbol shown	PASS PASS	

			The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS
	12	keep entering valid location until you obtain a hit	the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly		
			good iron. Your turn is over! You missed!' or a Hit message ' Direct Hit, the sound of breaking wood and screams is unmistakable!'		
				correct message shows	PASS
			The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar	boards refresh correctly	PASS
			The game should also show the result of the AI shot on the players board	board shows shot correctly	PASS
			The game should display below the boards a message detailing the result of the AI shot	correct message shows	PASS
			The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS
			If the AI misses it should display a yellow M		
			If the AI hits it should display a red #	correct symbol shown	PASS
			The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS
	13		confirm AI is selecting neighbouring locations. When the AI gets a hit, for the next shot it should target a neighbouring location. It should		
		a neighbouring tile for the next location	continue to select neighbouring locations until it has exhausted the valid shot locations. If it gets another hit, it will add the neighbouring		
			locations to the list and continue until it has hit all the tiles around those generating hits.	cross formation - this repeats until all valid	
				targets are hit	PASS
	14	confirm AI will select all rows and columns	Repeatedly play the game to ensure that the AI will fire at each row and each column. Ensuring that it will select the corners, and edge		
			tile locations	Al targets every cell	PASS
	15	confirm when a ship has each tile location hit, it sinks	Confirm that when you or the AI hit every tile location for a ship, it displays the message that the ship has been sunk!	ship sunk message displays and scoreboard	
		,		updates	PASS
	16	confirm computer is not selecting a previous location	confirm that for each turn loop the AI selects a new location by counting the number of shots displayed on the player board. Each turn		
		O	should increase the number by one	shots increase by one each round	PASS
	17	confirm win/lose condition	Once either all the Al ships have been destroyed or all the Player ships have been destroyed, the game should present the end game	5.000	
	-	Committee willy lose condition.	Screen.	win/lose condition triggered correctly	PASS
Test shot r	recogni	ition/ turn loop/ AI shot - hard difficulty 10x10 b		7	
Test shot i		Navigate to https://calico-jack.herokuapp.com/	Game should start automatically	1	
	1	Navigate to https://calico-jack.nerokuapp.com/	The pirate flag should show in the terminal along with the welcome message	and a marrage change	PASS
		1	The pirate flag should snow in the terminal along with the welcome message	correct message shows	PASS
	2	click inside the terminal	l		
	3	press 'y' and then 'enter'	game should start loading process		
			Next step message should appear asking the user 'How brave are ye? Shall we play a full game or a little one? Select a board size, enter		
			'6' for a little one or '10' for normal:	correct message shows	PASS
	4	input correct value of '10'	A message should appear related to the size of the board. 'Hmm a full one, ye be a brave pirate tryin to impress me? If you really want		
			to impress me, you should try it on hard. Select your difficulty, enter 'E' for easy, 'N' for normal or 'H' for hard: '		
				correct message shows	PASS
			game should ask you to select difficulty level with options of either easy normal or hard	correct message shows	PASS
	5	press 'h' for hard and then 'enter'	game should set difficulty level to hard and then print a playing board for the user	correct message shows	PASS
		ľ	confirm playing board is 10 tiles x 10 tiles	board is correct	PASS
			board should be labelled 0 - 9 along the top, and A - J down the side		
			game should display the message 'Now we need to position our ships ready for battle! Are ye ready? Press 'Enter' to start!		
	6	press 'enter' to start ship placement	game should display a message informing the user which ship needs to be placed and how long the ship is.		
			The first ship needed to be placed for a 10x10 board should be a Pinnace which is 5 tiles long		
	7	place all the ships on the board in valid locations and	Once completed the game should display a message informing the user that the enemy has arrived and then display the game boards		
		orientations	and instructions	board and instructions display correctly	PASS
			The game will ask the user 'What are your orders? Where do you want to target? Select the location in the format of row then column		
			e.g. 'E4':	correct message shows	PASS
					1,763
	8	enter 'A11' as the target location		1	
	8	enter 'A11' as the target location	A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this	correct message shows	DACC
	8	enter 'A11' as the target location	A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' Letter then Number, this is not a time to act the fool, try again!	correct message shows	PASS
			A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' Letter then Number, this is not a time to act the fool, try again! The game should repeat the target location message asking for the input	correct message shows correct message shows	PASS PASS
	8	enter 'A11' as the target location enter 'A0' as the target location	A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' Letter then Number, this is not a time to act the fool, try again! The game should repeat the target location message asking for the input the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly	9	
			A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' Letter then Number, this is not a time to act the fool, try again! The game should repeat the target location message asking for the input	9	
			A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' letter then Number, this is not a time to act the fool, try again! The game should repeat the target location message asking for the input the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly good iron. Your turn is over! You missed!' or a Hit message 'Direct Hit, the sound of breaking wood and screams is unmistakable!'	correct message shows	PASS
			A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' Letter then Number, this is not a time to act the fool, try again! The game should repeat the target location message asking for the input the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly good iron. Your turn is over! You missed!' or a Hit message 'Direct Hit, the sound of breaking wood and screams is unmistakable!' The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar	correct message shows boards refresh correctly	PASS PASS
			A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' Letter then Number, this is not a time to act the fool, try again! The game should repeat the target location message asking for the input the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly good iron. Your turn is over! You missed!' or a Hit message 'Direct Hit, the sound of breaking wood and screams is unmistakable!' The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar The game should also show the result of the AI shot on the players board	correct message shows boards refresh correctly board shows shot correctly	PASS PASS PASS
			A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' Letter then Number, this is not a time to act the fool, try again! The game should repeat the target location message asking for the input the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly good iron. Your turn is over! You missed!' or a Hit message 'Direct Hit, the sound of breaking wood and screams is unmistakable!' The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar The game should also show the result of the AI shot on the players board The AI will target the top left of the middle four tiles with its first shot	correct message shows boards refresh correctly board shows shot correctly Al targets correct cell	PASS PASS PASS PASS
			A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' Letter then Number, this is not a time to act the fool, try again! The game should repeat the target location message asking for the input the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly good iron. Your turn is over! You missed!' or a Hit message 'Direct Hit, the sound of breaking wood and screams is unmistakable!' The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar The game should also show the result of the AI shot on the players board The AI will target the top left of the middle four tiles with its first shot The game should display below the boards a message detailing the result of the AI shot	correct message shows boards refresh correctly board shows shot correctly Al targets correct cell correct message shows	PASS PASS PASS PASS PASS
			A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' Letter then Number, this is not a time to act the fool, try again! The game should repeat the target location message asking for the input the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly good iron. Your turn is over! You missed!' or a Hit message 'Direct Hit, the sound of breaking wood and screams is unmistakable!' The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar The game should also show the result of the AI shot on the players board The AI will target the top left of the middle four tiles with its first shot	correct message shows boards refresh correctly board shows shot correctly Al targets correct cell	PASS PASS PASS PASS
			A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' Letter then Number, this is not a time to act the fool, try again! The game should repeat the target location message asking for the input the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly good iron. Your turn is over! You missed!' or a Hit message 'Direct Hit, the sound of breaking wood and screams is unmistakable!' The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar The game should also show the result of the AI shot on the players board The AI will target the top left of the middle four tiles with its first shot The game should display below the boards a message detailing the result of the AI shot	correct message shows boards refresh correctly board shows shot correctly Al targets correct cell correct message shows	PASS PASS PASS PASS PASS
			A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' letter then Number, this is not a time to act the fool, try again! The game should repeat the target location message asking for the input the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly good iron. Your turn is over! You missed!' or a Hit message 'Direct Hit, the sound of breaking wood and screams is unmistakable!' The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar The game should also show the result of the AI shot on the players board The AI will target the top left of the middle four tiles with its first shot The game should display below the boards a message detailing the result of the AI shot If the AI misses it should display a yellow M	correct message shows boards refresh correctly board shows shot correctly Al targets correct cell correct message shows	PASS PASS PASS PASS PASS
	9		A11 is not a valid location, therefore the game should respond with an error message informing the user 'We've been through this already, it needs to be in the format of 'E4' letter then Number, this is not a time to act the fool, try again! The game should repeat the target location message asking for the input the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly good iron. Your turn is over! You missed!' or a Hit message 'Direct Hit, the sound of breaking wood and screams is unmistakable!' The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar The game should also show the result of the Al shot on the players board The Al will target the top left of the middle four tiles with its first shot The game should display below the boards a message detailing the result of the Al shot If the Al misses it should display a yellow M If the Al hits it should display a red #	boards refresh correctly board shows shot correctly Al targets correct cell correct message shows correct symbol shown	PASS PASS PASS PASS PASS PASS PASS

			1	The game should inform the user 'You have already fired there, are you trying to waste our Cannonballs? You better get your head in the	1	
				game pirate, lets try this again!'	correct message shows	PASS
				The game should then repeat the message asking the user to input their target coords	correct message shows	PASS
		11	enter a different valid location	the game should respond with a message detailing the result of the shot. Either ' Nothing but water! What a waste of some perfectly		
				good iron. Your turn is over! You missed!' or a Hit message ' Direct Hit, the sound of breaking wood and screams is unmistakable!'		
					correct message shows	PASS
				The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar	boards refresh correctly	PASS
				The game should also show the result of the AI shot on the players board	board shows shot correctly	PASS
				The game should display below the boards a message detailing the result of the AI shot	correct message shows	PASS
				The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS
				If the AI misses it should display a yellow M	correct symbol shown	PASS
				If the Al hits it should display a red #	,	
				The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS
		12	keep entering valid location until you obtain a hit	the game should respond with a message detailing the result of the shot. Either 'Nothing but water! What a waste of some perfectly		
				good iron. Your turn is over! You missed!' or a Hit message ' Direct Hit, the sound of breaking wood and screams is unmistakable!'		
					correct message shows	PASS
				The game should refresh the boards with showing the result of the shot taken by the user on the targetting radar	boards refresh correctly	PASS
				The game should also show the result of the AI shot on the players board	board shows shot correctly	PASS
				The game should display below the boards a message detailing the result of the AI shot	correct message shows	PASS
				The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS
				If the AI misses it should display a yellow M	correct symbol shown	PASS
				If the Al hits it should display a red #		
				The game should display the message asking the user to input a target location for the next shot	correct message shows	PASS
		13	When the computer gets a hit on hard mode, it should	confirm AI is selecting neighbouring locations. When the AI gets a hit, for the next shot it should target a neighbouring location. Unlike		
			select a neighbouring tile for the next location	the normal difficulty, it will target nighbouring tiles in order of probability that there is a ship there. So when it finds another hit location		
				it should carry on in the same orientation.	Al targets neightbouring tiles correctly	PASS
		14	confirm AI will select all rows and columns	Repeatedly play the game to ensure that the AI will fire at each row and each column. Ensuring that it will select the corners, and edge		
				tile locations	AI will target each cell	PASS
		15	confirm when a ship has each tile location hit, it sinks	Confirm that when you or the AI hit every tile location for a ship, it displays the message that the ship has been sunk!	ship sunk message displays and scoreboard	
					updates	PASS
		16	confirm computer is not selecting a previous location	confirm that for each turn loop the Al selects a new location by counting the number of shots displayed on the player board. Each turn		
				should increase the number by one	Al selects a different tile location each time	PASS
		17	confirm win/lose condition	Once either all the AI ships have been destroyed or all the Player ships have been destroyed, the game should present the end game		
			, ·	screen.	win/lose condition triggered correctly	PASS
TC011	Test shot re	cogni	tion/ turn loop/ AI shot - 6x6 board			
		1	Repeat TC008 steps for a 6x6 board	Confirm no difference in response	no difference in results	PASS
			Repeat TC009 steps for a 6x6 board	Confirm no difference in response	no difference in results	PASS
			Repeat TC010 steps for a 6x6 board	Confirm no difference in response	no difference in results	PASS
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