TestCases - GUI (Tomek)

TEST CASE GROUP	TEST CASE NAME	TEST CASE RESULT
	Enable new player panel (there cannot be more than 6 players enabled).	PASSED
Number of players	Disable existing player panel (there is only possibility to disable a panel if there is more than MinimumNumberOfPanelsEnabled).	PASSED
	Disabling and the enabling the panel restores the previously set data.	PASSED
	Set each player's nickname.	PASSED
	There is a default nickname preset for each eanbled panel.	PASSED
Player's nickname	The nickname lenght is limited to 9 characters.	PASSED
1 layer 3 mexitame	The nickname is written in capital letters only.	PASSED
	The nickname is unique for each player.	FAILED
	There is no possibility to set empty an string as a nickname.	PASSED
Player's color	Each player has its uqniue color.	PASSED
	Set each player's left and right turn key.	PASSED
	There is no possibility that a player has the same key set for both left and right turn.	PASSED
Player's movement keys	There is no possibility that two players has the same key set.	PASSED
Trayer's movement keys	There is a list of supported keys.	PASSED
	There is no possibility to set the unsupported key.	PASSED
	Each key from the supported key list has its output format abbreviation.	PASSED
Arena size	User is able to choose one of three sizes.	PASSED
Player speed	User is able to choose one of three speeds.	PASSED
Player size	User is able to choose one of three sizes.	PASSED
Start	Pressing start button loads the game arena.	PASSED
Next game	Reloading GUI after the finised game restores the settings from the previous play.	NOT TESTED

TestCases - GUI + MERGE

US	TEST GROUP	TEST CASE	PRE-CONDITIONS	ACTIONS TO PERFORM	EXPECTED BEHAVIOR	TEST RESULT	COMMENTS
	Launch GUI	Launch GUI	none	launch the game	GUI is loaded	PASSED	
		Default number of players	none	launch the game	2 top left player panels are enabled	PASSED	
			player panel is disabled		disabled panel becomes enabled	PASSED	
		Add new player	player panel has not been enabled during current launch	click on the disabled panel	nickname is set to default		na pomarańczowo - opcjonalnie (dot. "Restore player")
					control keys are set to default	PASSED	
			player panel is enabled		enabled panel becomes disabled	PASSED	
	Number of players		at least 3 panels are enabled	click the X button on the enabled panel	nickname is saved so that it can be restored	OPTIONAL	na pomarańczowo - opcjonalnie (dot. "Restore player")
					control keys are saved so that they can be restored	OPTIONAL	
			player panel is disabled		disabled panel becomes enabled	OPTIONAL	
		Restore player (optional)	player panel had been enabled during current launch	click on the disabled panel	nickname is restored (set to the previously set version)	OPTIONAL	opcjonalnie - do dyskusji (fajnie by było, ale ja tego nie wymagam)
			when player panel was enabled, nickname was modified and set		control keys are restored (set to the restored version)	OPTIONAL	
		Default nicknames	none	launch the game	players have default nickname presets (eg. PLAYER 1, PLAYER 2, etc.)	PASSED	
		Set player nickname	player panel is enabled	click on the nickname input field and type 1-9 characters (letters and digits only)	player nickname is set	PASSED	NOTE: Imiona nie muszą być różne
		Set player mekhanie	player patier is enabled		lowercase letters are displayed as corresponding uppercase letters	PASSED	NOTE. Initolia lile iliuszą być tożne
GUI	Player nicknames	Empty nickname	player panel is enabled	click on the nickname input field, make sure it's empty, click somewhere else	player nickname is set to default	PASSED	
		- e	player panel is enabled		not possible to type the 10th char - it doesn't appear in the input field	PASSED	a dlaczego 9? u mnie najszerszych mieści się 6
		Characters other than letters and digits	player panel is enabled		not possible to type a char other than letter or digit - it doesn't appear in the input fi	PASSED	a czemu? dlaczego nie mogę być *AGA* ? :(
	Player colors	Default colors	none	launch the game	players have distinct default colors	PASSED	
		Defaulf control keys	none		players have distinct default control keys	PASSED	
		Set left/right key	player panel is enabled	UPDATED)	left/right control key is set	TO BE UPDATED	lista klawiszy
					a corresponding abbreviation is displayed (TO BE UPDATED)	TO BE UPDATED	lista Kiawiszy
	Player control keys	Empty key	player panel is enabled		left/right control key is set to default	FAILED/NEEDS INFO	wg mnie klawisze myszy nie powinny być wspierane
		Unsupported keys	player panel is enabled	click on the left/right input field and press an unsupported key	not possible to set an unsupported key - it doesn't appear in the input field	FAILED/NEEDS INFO	wg mnie klawisze myszy nie powinny być wspierane
		, , ,	player panel is enabled		not possible to set an already used key - it doesn't appear in the input field	WIERZĘ, ŻE PASSED	
	Arena size	Default arena size	none	launch the game	arena size is set to medium	PASSED	
		Set arena size	none	set slider position as left/middle/right	arena size is set to small/medium/large	NEEDS INFO	co jak ktoś ma małą rozdzielczość?
	Player speed	Default player speed	none	launch the game	player initial speed is set to medium	PASSED	u mnie skalowanie jest możliwe podczas gry - chcemy tak?
	r tayer speed	Set player speed	none	set slider position as left/middle/right	player initial speed is set to slow/medium/fast	PASSED	u mnie przy skalowaniu wszystko oprócz kropek (tło i "trejsy") szarzeje
	Player size	Default player size	none	launch the game	player initial size is set to medium	PASSED	
		Set player size	none	set slider position as left/middle/right	player initial size is set to small/medium/large	PASSED	
		Start game	players have control keys set distinc	t e	game arena is loaded	PASSED	
	Start game			click START button	arena size is set according to GUI input	PASSED	
					player and game settings are set according to GUI input	PASSED	
MERGE	Next round	Next round	round finishes		next game is loaded	PASSED	
				none	arena size is set according to GUI input	FAILED/NEEDS INFO	trzecia runda z jakiegoś powodu się zmniejsza i widać GUI pod spodem (
					player and game settings are set according to GUI input	PASSED	
	Next game	Reload GUI	game finishes	click PLAY AGAIN button ?	Settings are restored	TO BE UPDATED	
	. text game	Incidad GO1	Barre Timbres	onex Latt Horizonadon.	Settings are restored	TO DE CIDATED	<u> </u>

TestCases - GAMEPLAY

TEST GROUP	TEST CASE	PRE-CONDITIONS	ACTIONS TO PERFORM	EXPECTED BEHAVIOR	TEST RESULT	COMMENTS
	Get initial position	arena is loaded	none	player has random initial position within the arena	PASSED	
	Get initial direction	arena is loaded	none	player has random initial direction	PASSED	
		arena is loaded		a circle (of player color) is drawn according to current player position	PASSED	
	Draw head		none	its radius depends on current player size	PASSED	
				its drawn properly when arena limits are reached	PASSED	
	Move forward	player is active during current round	none	player position is changing "in a straight line" according to current direction	PASSED	
		none of the player control keys is pressed		player position is changing with a constant speed	PASSED	
	Leave trace	player is active during current round	none	a set of marks corresponding to player position (varying in time) is drawn	PASSED	
		none of the player control keys is pressed		the trace creates an impression of continuous line	PASSED	
	Turn left/right once	player is active during current round	press left control key once	counterclockwise rotation of a direction vector by φ degrees	PASSED	
	Turn lett/right once	none of the player control keys is pressed	press right control key once	clockwise rotation of a direction vector by φ degrees	PASSED	
GAMEPLAY		player is active during current round		rotation of a direction vector by φ degrees	PASSED	
	Turn left/right continuously	none of the player control keys is pressed	press one control key constantly	trace becomes an arc with a radius r that depends on the speed	PASSED	
	Turn lett right continuously		press one control key constantly	radius of the arc is larger than radius of the player head for initial player setting	PASSED	skrajne przypadki: mała prędkość + pogrubienie mogą to zmienić ale jest to dopuszczalne
				form time to time, the trace is not drawn for a very short period of time t	PASSED	
	Leave holes	player is active during current round	none	it happens with a constant frequency	PASSED	
				NF: the moment of leaving a hole can be somewhat predicted by a player	PASSED	
	Go through walls	player is active during current round	reach arena limit	player position is changed so that the head appears on the opposite side of arena	PASSED	
	Collision	player is active during current round	move forward, reach such a position so that a part of the player head covers a previously drawn trace	player is inactive (no longer able to play in this round)	PASSED	występują przypadki w których kolizja jest wykrywana i player jest zatrzymywany odrobinę za wcześnie jeszcze zanim zetknie się z innym śladem
	Pause	arena is loaded round is active	press spacebar key once	round is paused (players haven't changing positions) appropriate text appears on screen to inform that game is paused	PASSED	
	Pause inactive round	arena is loaded round is inactive (countdown or next round delay)	press spacebar key once	no effect on screen and game behavior	PASSED	
	Unpause	arena is loaded round is paused	press spacebar key once	round is active	PASSED	
	Transitions between rounds	arena is loaded	eliminate all players except one (see TC: Collision)	after elimination of penultimate player, last player can move freely for few second and after that time next round is started	PASSED	
				after next round starts, all traces on arena are cleared	PASSED	
RULES				after next round starts, all settings configured in menu (for the arena and the players) before game started are the same	PASSED	
				after next round starts, all players are freeze on new, random positions within arena	PASSED	
				after 3 seconds from next round start, all players become active and playable again	PASSED	
	Earning Points	arena is loaded	eliminate player (see TC: Collision)	every active player in round earns 1 point	PASSED	
		game is started	collide two players in a same time (see TC: Collision)	player, which earns 1 point is choosed randomly from both collided players	PASSED	
	End Game	game is started	make at least one player to earn at least N*5 points (where N means number of players)	game ends (all players are not able to play) and final screen appears	PASSED	

TestCases - FLOW

EXPECTED BEHAVIOR	TEST RESULT	COMMENTS
new arena is loaded and player heads appear on the screen according to the new initial position	PASSED	
The game is frozen, there is a countdown: 3, 2, 1, GO!	PASSED	
white letters in the middle of the arena	PASSED	
after the countdown game starts	PASSED	
when the game is finished, a final screen with a score board appears	PASSED	
the final screen is a shaded layer put on top of the last scene	PASSED	
the colors from the GUI palette are used	PASSED	
the display text is consistent with findings	PASSED	
the score borad is sorted in descending order	PASSED	
"Play Again" button alows to go back to the GUI	PASSED	
next game starts with the previous game settings	PASSED	
general game flow is preserved (GUI - Countdown - Arena Countdown - Arena - Score board - GUI - Countdown - Arena - etc.)	PASSED	