APCS pd5 2017-01-10

ANIMAL CIRCUS FLOWCHART

Woo: Welcome me	essage										
Woo: Create insta	nces of Player ar	nd Circus									
1	,										
START											
Circus, Player: Dis	play info - attend	dance, money									
1	•										
				I) OPTION							
Woo: Display num	ber of actions lef	ft									
Woo: Prompt user	to make a choic	e									
1	(if actions left)		(nevermind) ↑			\downarrow		(nevermind) ↑			
1) Preparation							2) Circus				
↓ (continue)	1		↓ (continue)	1			↓ (continue)				
a) Buy	1		b) Train	1			Player: Check if	any animals are ow	ned		
\downarrow	(nevermind) \uparrow		\downarrow	(nevermind) ↑			↓ (no)		(yes) ↓		
Woo: List animals	and prices		Player: List anima	als owned			Go back to I) OP	TION	\downarrow		
Woo: Ask user to choose one Player: Ask user			to choose one					1			
↓ (if input)				↓ (if input) Woo				Woo: Create instar	nce GameBoard		
Woo: Create instance of AnimalX			Player: Prompt for confirmation								
AnimalX: Display more info (appeal, shape)			↓ (no) (ye						II) OPTION		
↓				Go back to b) Train			↓ GameBoard: Display 2D-Array bo			ırd	
Woo: Prompt for purchase confirmation			\downarrow				GameBoard: Display AnimalX and its shape				
↓ (no)		(yes) ↓		AnimalX: Update				\downarrow	\downarrow	↓	
Go back to a) Buy		\downarrow		Woo: Decrement	number of action	is left		a) Place animal	\downarrow	b) Skip animal	
		1		\				\downarrow	\downarrow	\	
Player: Check if er	nough money			Go back to I) OPT	TON		GameBoard: Ask	c for x, y inputs	\	GameBoard: Change ro	ster order
↓ (no)		(yes) ↓					1	1	\	\	
Go back to a) Buy		\downarrow				GameBoard: Ch	eck if animal fits	↑	\downarrow	Go back to II) OPTION	
		1				↓ (yes)		(no) ↑	\downarrow		
Player: Update ow						GameBoard: Up	date 2D-Array boa	ard	\downarrow		
Woo: Decrement r	number of actions	s left				\			Ţ		
↓			Go back to II) OPTION				c) Done with circus				
Go back to 1) OPTION							Circus: Print out ea	-	e points	(quit) ↓	
								Player: Update Bal	ance		1
				↓ (keep playing)					1		
						Go back to STAF	₹1		O'm Pint 5	↓	
										Circus: Display final res	uits