 Conway's Game of life: Project 1
To start the design of the game we are going to have to outline the among matrix that will hald the values. arrow is 40 x20 2 for-loops to hald values but want display anything. There will need to be a second array which will hald the locations of the dements "in the game"
The biggest function we will have to implement is the one that decides if a cell lives, dies, or caproduces. This will have to be done by counting around each element to be born. This could be clone by counting around each element (8 possible coordinates to count) - ex: 781 need an away to check the 8 pocations 543 and count the neighbors
Based on the array element we also need a variable that will count the number of neighbors, or lack their of. - that number will be added in the for loop, and then a variety of if else statements will determine the specific elements faite.

	Since we have now determined what
	elements will live, die, or reproduce we
	can implement the rules in it's entirity.
	We can also do this because we have gone
	through the away and determined the outcomes. At neighbors - death
\$0000000000000000000000000000000000000	· O or 1 neighbors = death
	· 3 live neighbors = new life (must be 3 exactly)
•	Now that the array's and conditions are
	Set we can ask the user to enter their
	start position and what shape (glider, gun
	or cannon)
•	Observations from tests
	One thing I noticed right away is that
(Approximate the second	I needed to develop a way to track
	my away and it's location in the different
	fundibus! Below is a diagram I used when going
### ### ### ### ### ### ##############	through each function.
	1. Start
THE REST OF STATE	2. Get Snape
	3. Creat the shape in array
	7 4. Compare to other elements this loops
#P 4F GNOCOCOMACO A ARMANACO PER CONCOCO CONTROL CONCOCO CONTROL CONCOCO CONTROL CONCOCO CONTROL CONTR	with the
	5. Copy the new array to the dd specifies
	5. Copy the new array to the da user fies to end 6. Display the array program

· One of the tests I forgot to address was

the "edge test". Prior to testing I expected

the shape to start to deform when it

hit the edges, and turn to much. When

testing it would sanetimes bounce back.

This is different then what I had originally thought. The edge case I throught I could just make another away that was about twice as big as the first co when the "live" cells went pass the edge they would just continue into the 2-D away and not be visible. This ended up being the way to go but definitely has its limits. I'm interest in seeing other students solutions to this pholdem. Another issue that took a lat of time working on was making sure the game could be played as long as the user wanted to. The biggest problem with this was the input validation I had to go through in order to ensure the user was entering the correct letters, strings, buriables, etc. And if they did not that they were prampted to enter the correct acreat they were prampted to enter the correct was an analysis.

9	the function that compared the two arrays worked about the same that I thought it would BUT getting the EXACT array values to count I their neighbors was trickler than I had thought originally. Often times it was something simple like using == when
	two arrays worked about the same
	that I thought it would BUT getting
	the EXACT array values to count I
inaka kali saa Caan good in aa maraya ka ika ah ka ah ka ah ka ka ka ah ka	their neighbors was trickier than I
	had thought originally. Often times it was
	something simple like using == when
	11 Merata 10 de -
	- Sometimes in the original document (pre-test)
	I doubted the arrays and left a value
	out. It took some that and error but
	eventually was able to get working.
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a secundo los de la filo de la color de 1940 de la cualcam a que a muento as que a cuando de la cidade cimbrida en	