







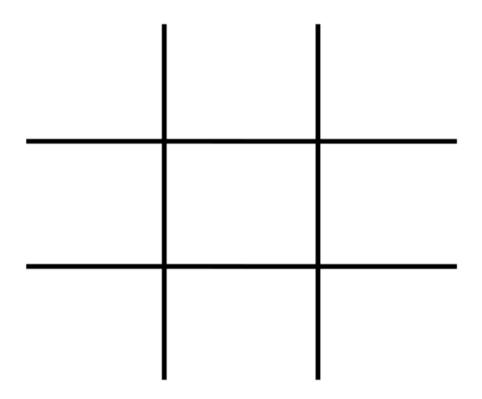


CS1117 – Introduction to Programming

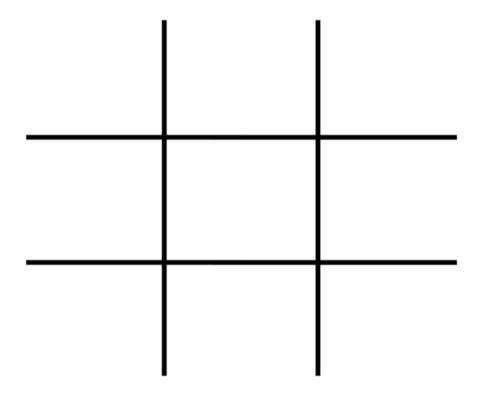
Dr. Jason Quinlan, School of Computer Science and Information Technology

A TRADITION OF INDEPENDENT THINKING

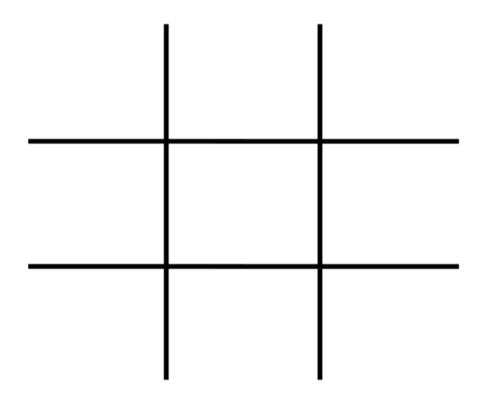




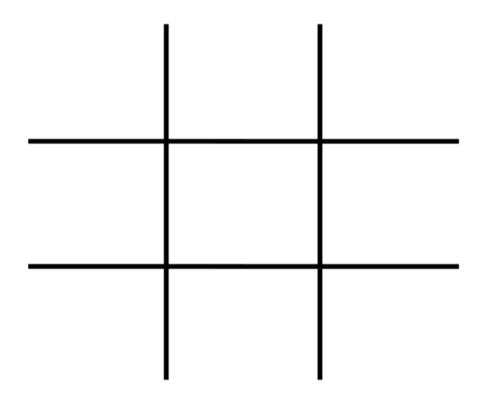


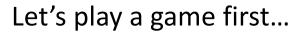




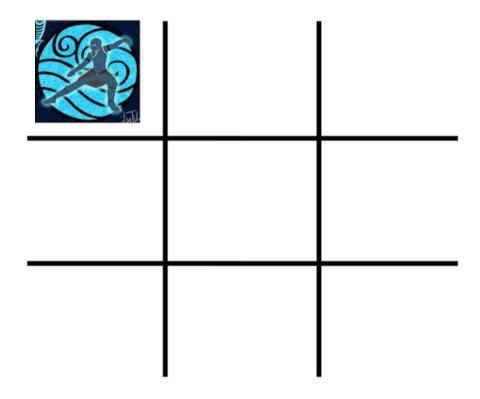
















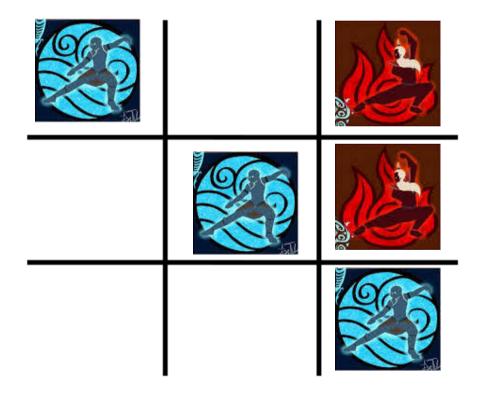




















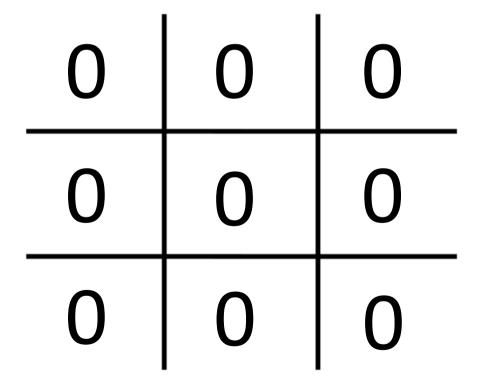


Lists?

Dictionaries?

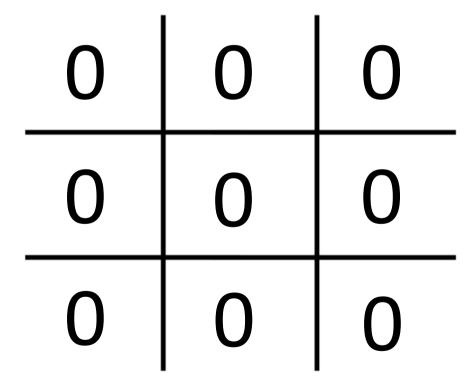


Define our List: [0,0,0,0,0,0,0,0,0]





Define our List: [0,0,0,0,0,0,0,0,0]







Fire Nation (Zuko) = 1

List:

Air Nation (Ang) = 2

0	0	0
0	0	0
0	0	0

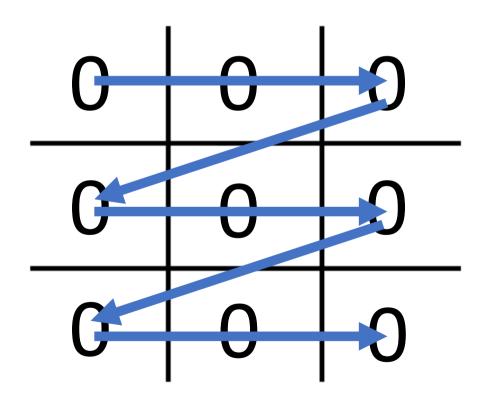




Fire Nation (Zuko) = 1

List:

Air Nation (Ang) = 2



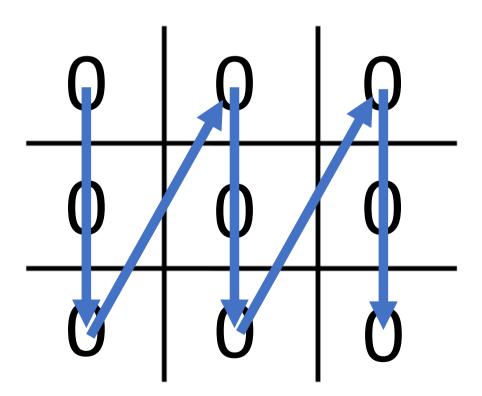




Fire Nation (Zuko) = 1

List:

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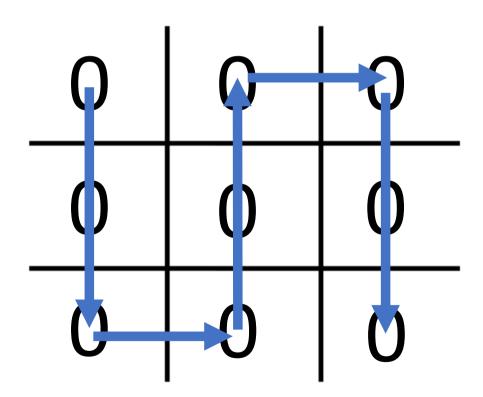




Fire Nation (Zuko) = 1

List:

Air Nation (Ang) = 2



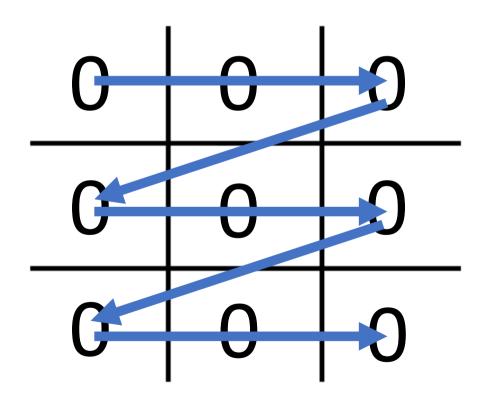




Fire Nation (Zuko) = 1

List:

Air Nation (Ang) = 2







Fire Nation (Zuko) = 1

List:

Air Nation (Ang) = 2

[2,0,1,0,2,1,0,0,2]

2	0	1
0	2	1
0	0	2





Fire Nation (Zuko) = 1 List: Air Nation (Ang) = 2 [2,0,1,0,2,1,0,0,1]



So what is the logic of the game?

Any column or row with all 3 spaces containing the same value

Or any diagonal with all 3 spaces containing the same value

So:



Fire Nation (Zuko) = 1

List:

Air Nation (Ang) = 2

[2,0,1,0,2,1,0,0,2]

2	0	1
0	2	1
0	0	2





Fire Nation (Zuko) = 1

List:

Air Nation (Ang) = 2 [2,0,1,1,0,1,2,0,1]

2	0	1
2	0	1
2	0	0





Fire Nation (Zuko) = 1

List:

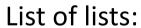
Air Nation (Ang) = 2

[2,2,2,0,0,1,0,0,1]

2	2	2
0	0	1
0	0	1



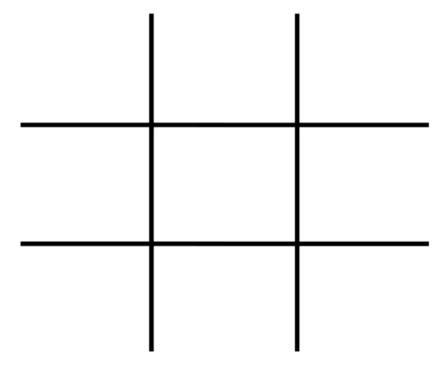




[0,0,0],

[0,0,0],

[0,0,0]





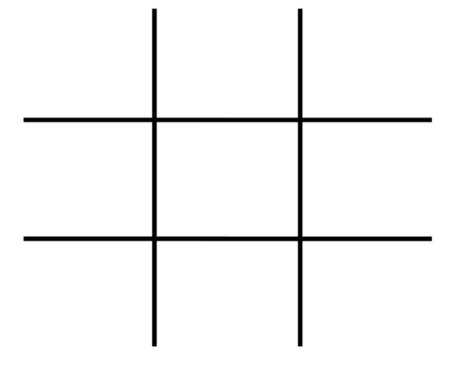
List of lists:

We can create a similar structure to the grid we want to use

[0,0,0],

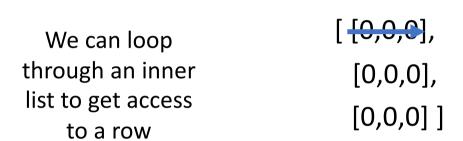
[0,0,0],

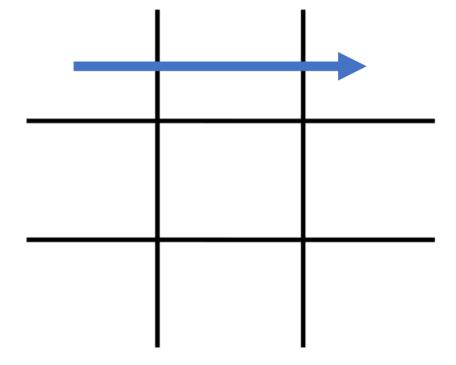
[0,0,0]



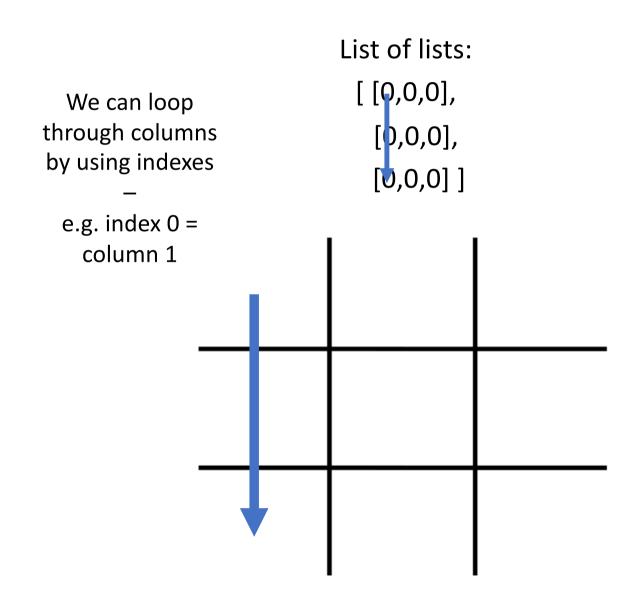


List of lists:











Let's look at a bit of code for this...





