

Incl

#### Think you know everything about Tic Tac Toe???

#### Think again!



### The greatest minds at GPN HQ have come up with a way to send a secret message using Tic Tac Toe boards!

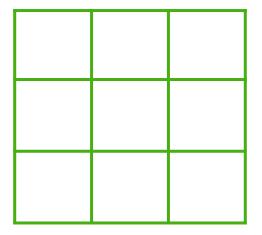
# Will you figure out the message before time runs out?



First, let's learn about the seemingly simple Tic Tac Toe board!



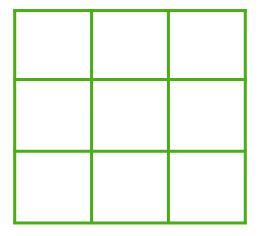
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How many move options do we have at the start of a game?



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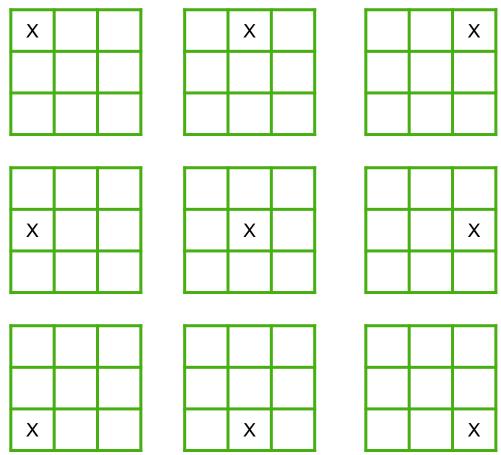


How many move options do we have at the start of a game? 9!



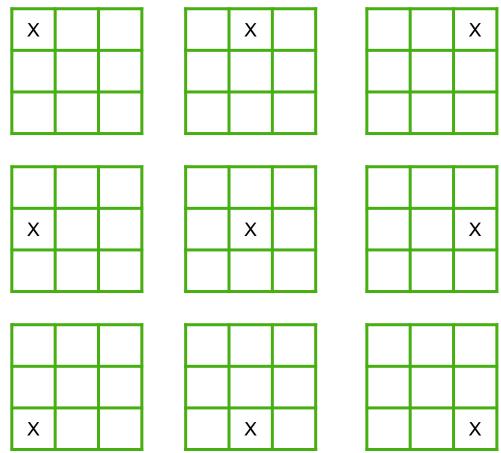


#### Here are our 9 possible starting positions!





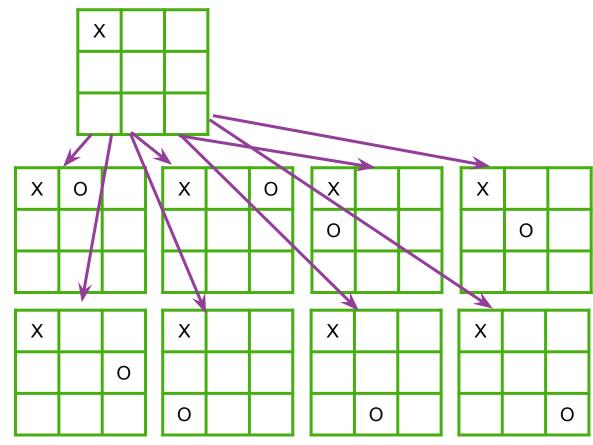
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How many options are there for O after X makes their first move?



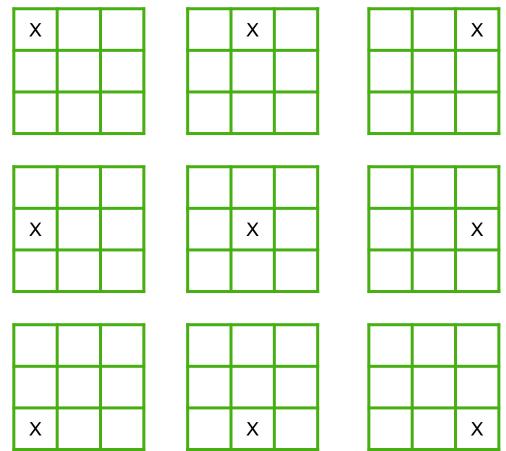
Here are our 9 possible starting positions!



How many options are there for O after X makes their first move? 8!



Here are our 9 possible starting positions!

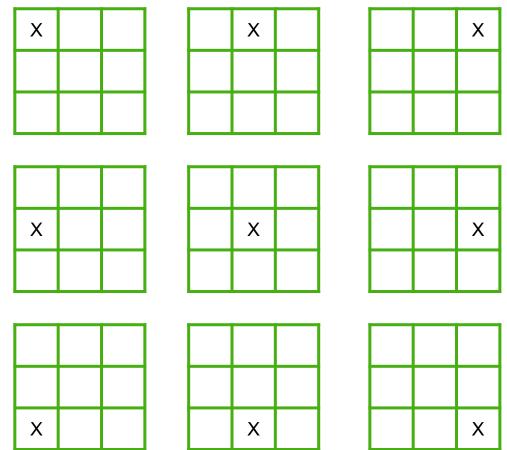


How many options are there for O after X makes their first move? 8!

How many total options are there for the possible ways the board could look after the second move?



Here are our 9 possible starting positions!



How many options are there for O after X makes their first move? 8!

How many total options are there for the possible ways the board could look after the second move?

8 x 9 = 72

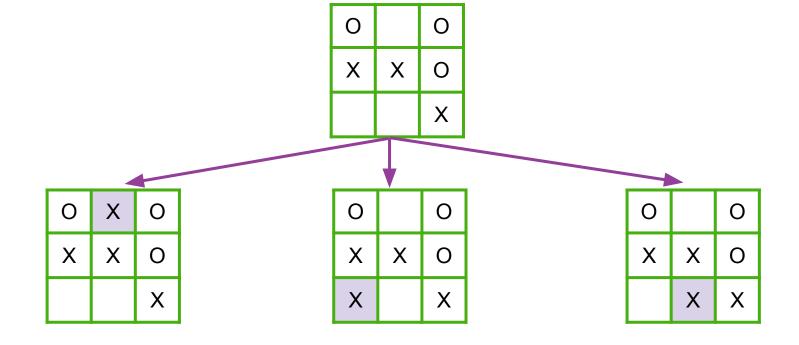
There are 362,880 possible games of Tic Tac Toe



We're going to figure out how to take a game that's already started and work out what the best move is for a player!

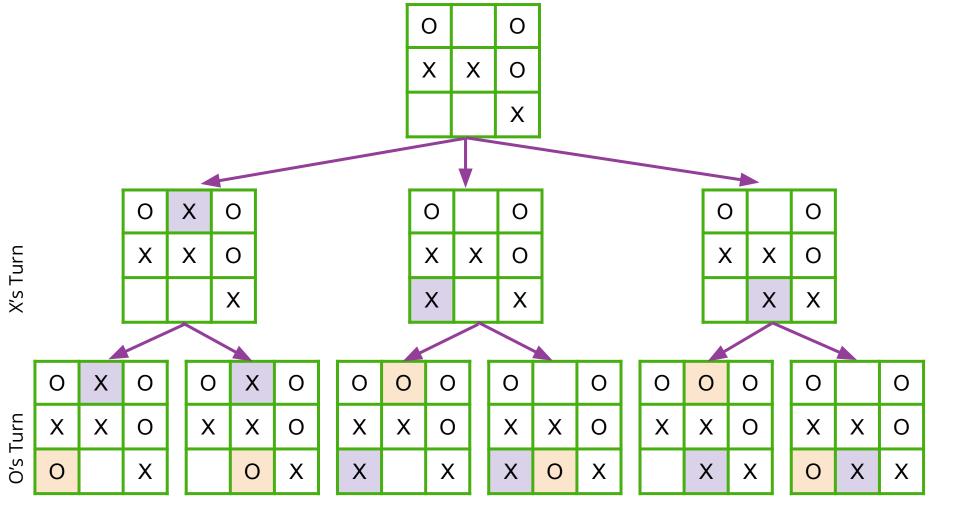
0		0
X	Х	0
		Х



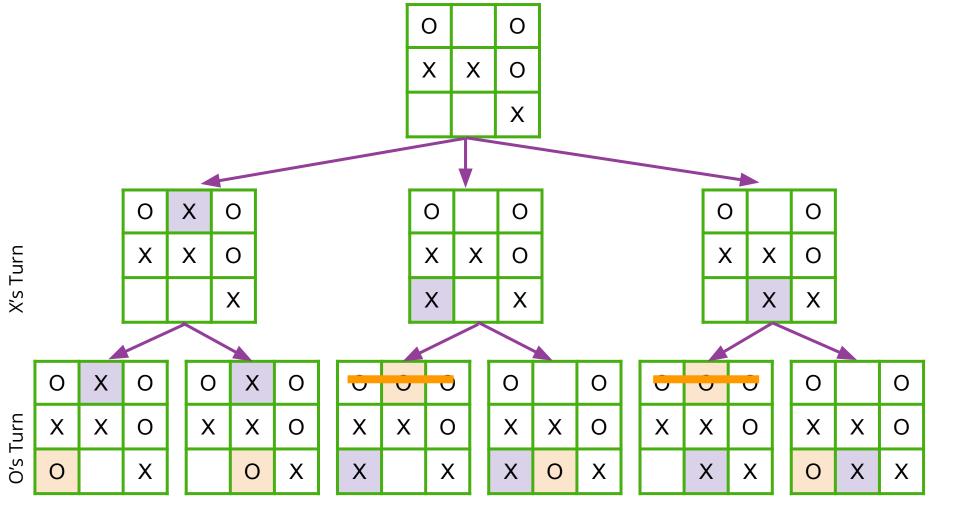


X's Turn

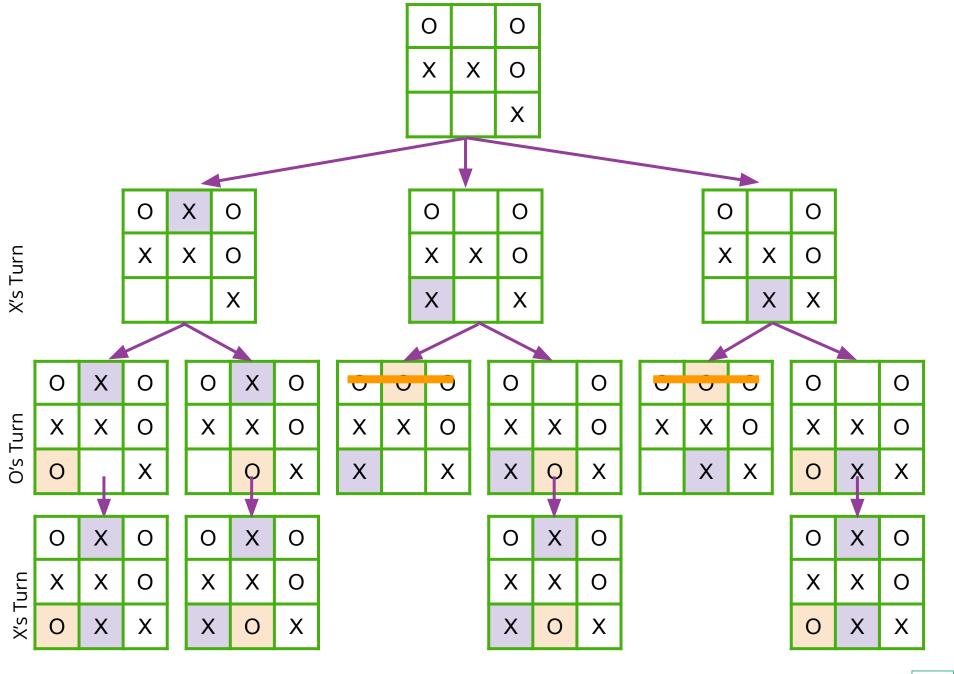




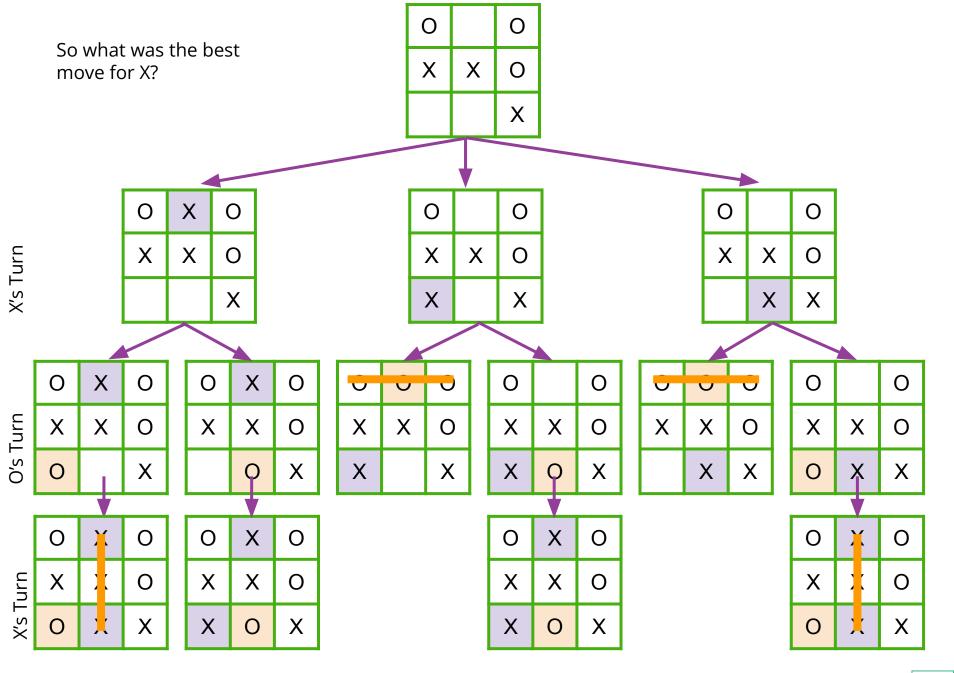




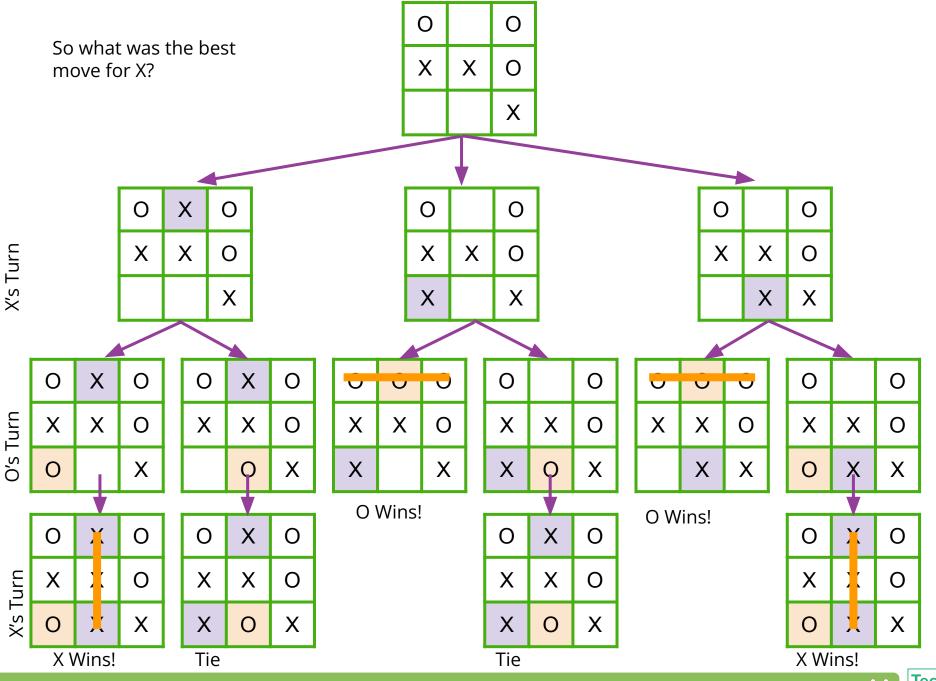




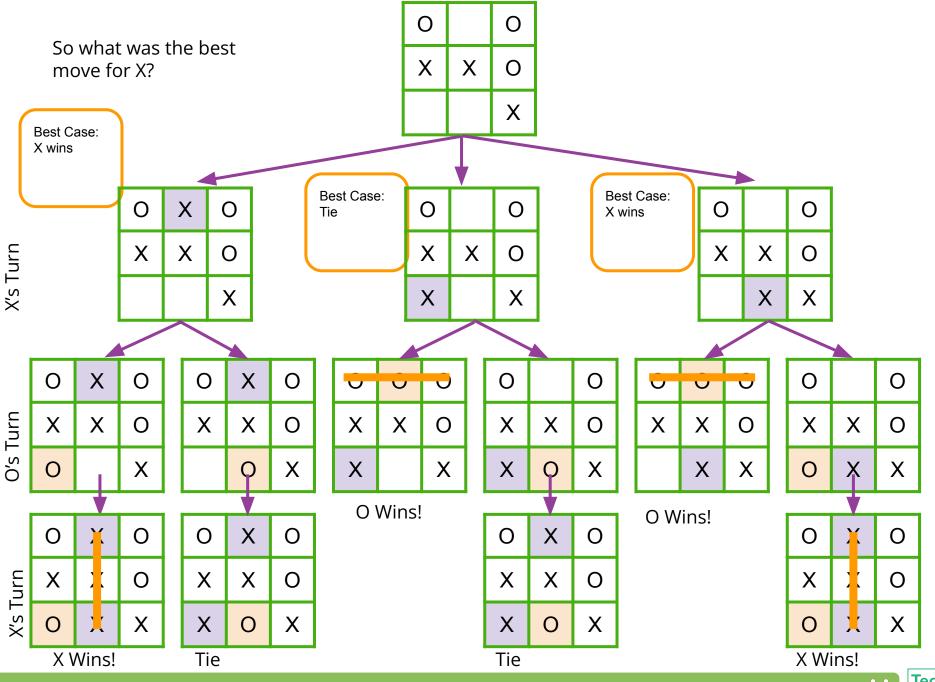




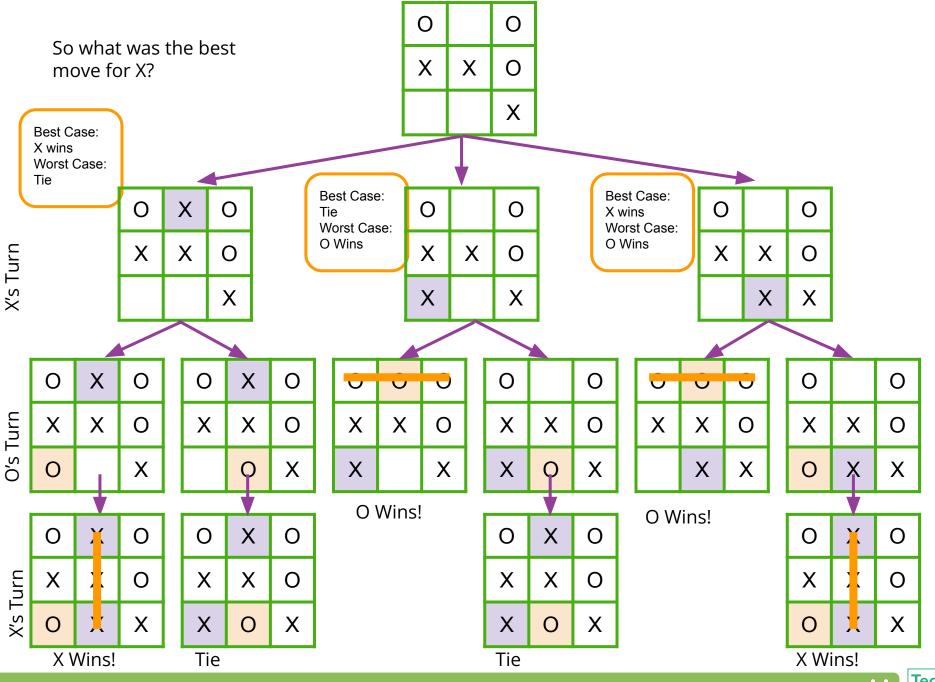




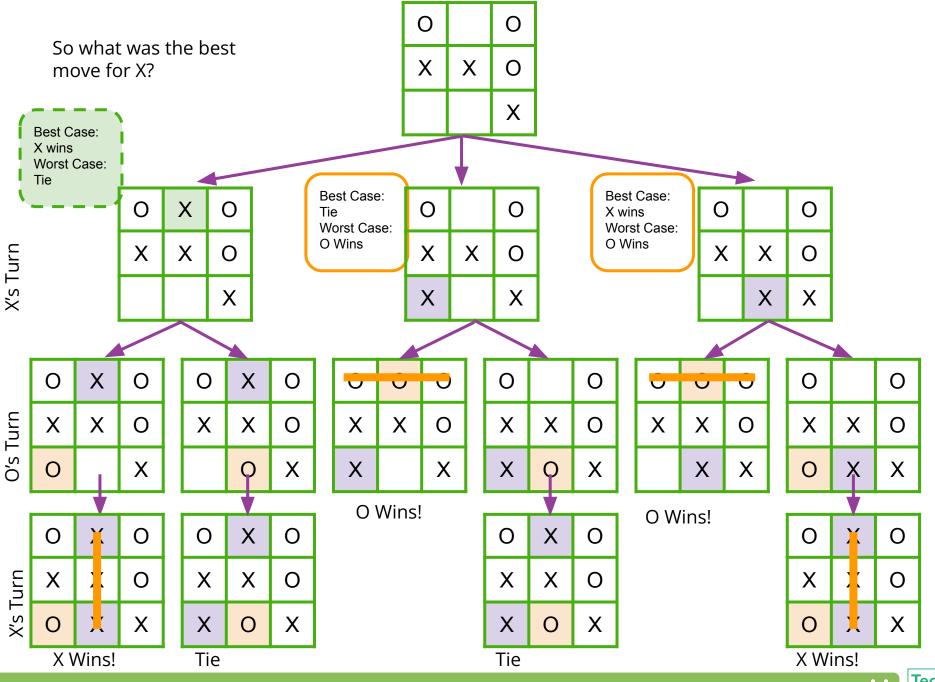






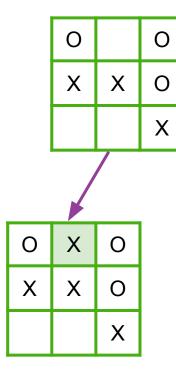


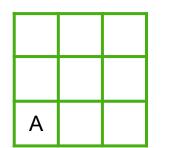


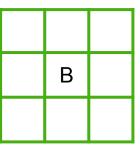


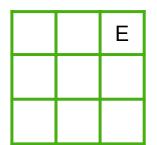


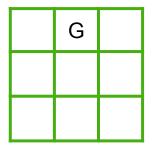
Once you find the best possible move, you then need to look up what letter that matches up with on the posters around the Lunch area!





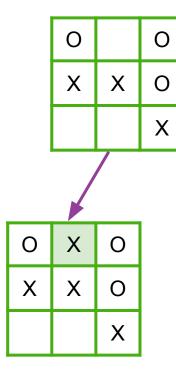


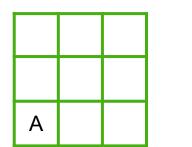


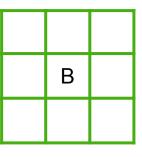


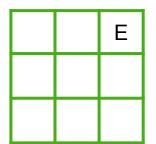


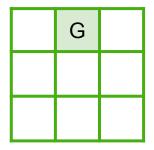
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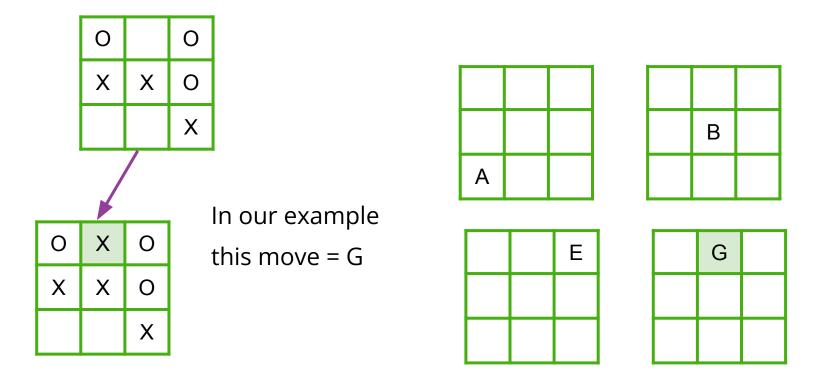








Once you find the best possible move, you then need to look up what letter that matches up with on the posters around the Lunch area!





Use your templates to go through each possible move to find the best one for each board, then find the matching letter!

## When you find the Secret Message, come and tell me at the front for a special treat!

(Don't forget to check for diagonal wins!)

