

Assignment #3

Lucy is playing on her smart phone the game Odiosis. The goal of this game is to fill a board of 2 rows and 2018 columns with zeros and ones so that two equal numbers in two adjacent cells of the same row prevent the use of two equal numbers on the corresponding cells of the other row. For example, in the figure below, the values of A and B can not be equal.

0	1	0	...	1	1	...
1	1	0	...	A	B	...

What is the possible number of ways that Lucy can fill an Odiosis board?

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- Answer the question by breaking the problem down into:
assumptions, model and solution/discussion.
- Please hand in a report containing your name, student ID and your solution (**we accept PDF ONLY**).
- Core Body of Knowledge (CBOK) Areas: problem solving abstract and design, ethics, professionalism, interpersonal communication