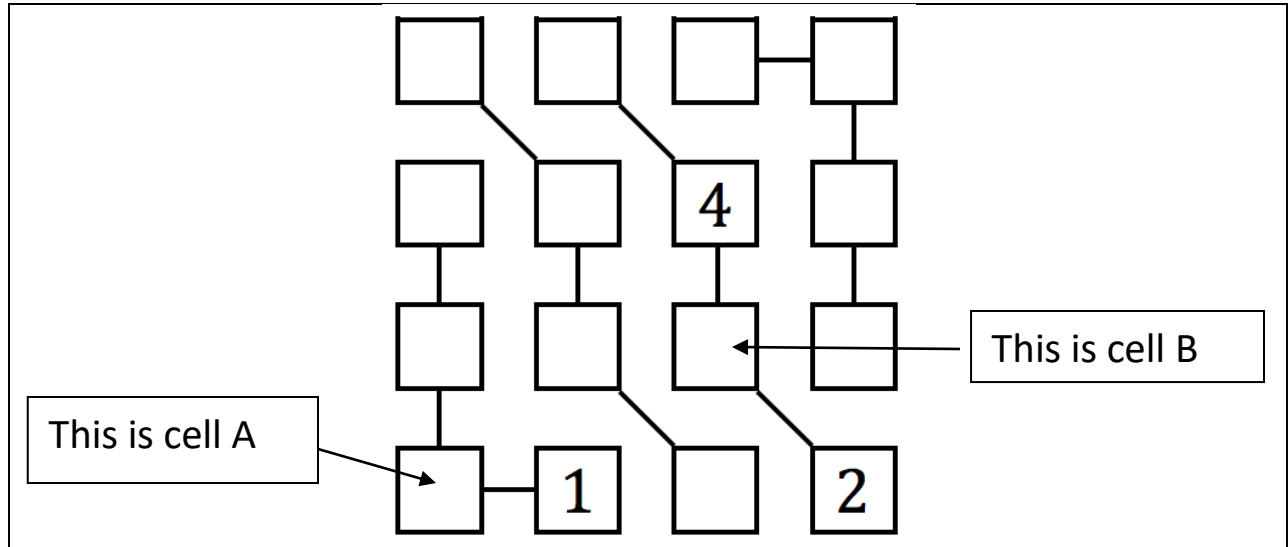


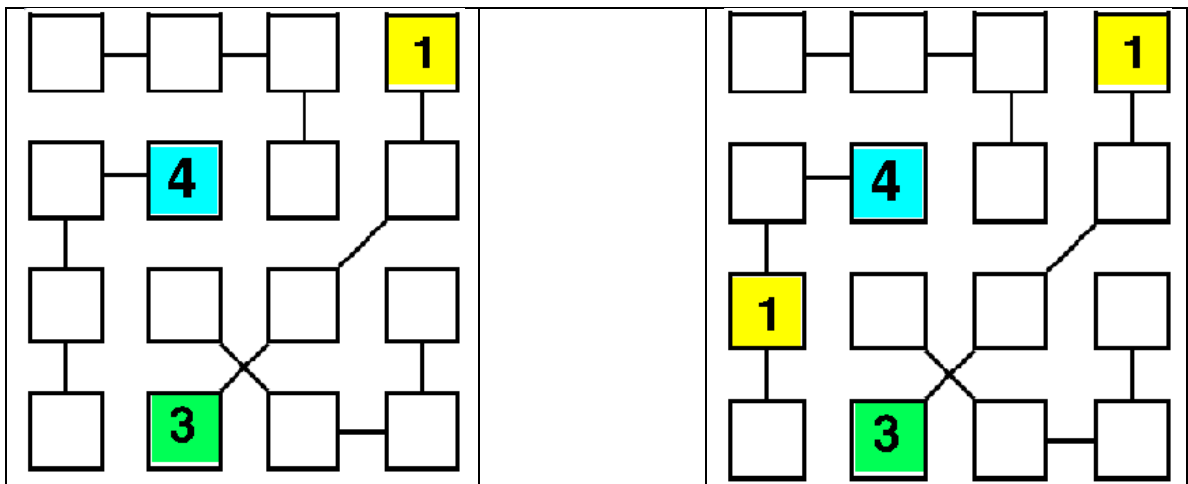
Logical Reasoning - Strimko Practice

Use the puzzle below to answer the first question.



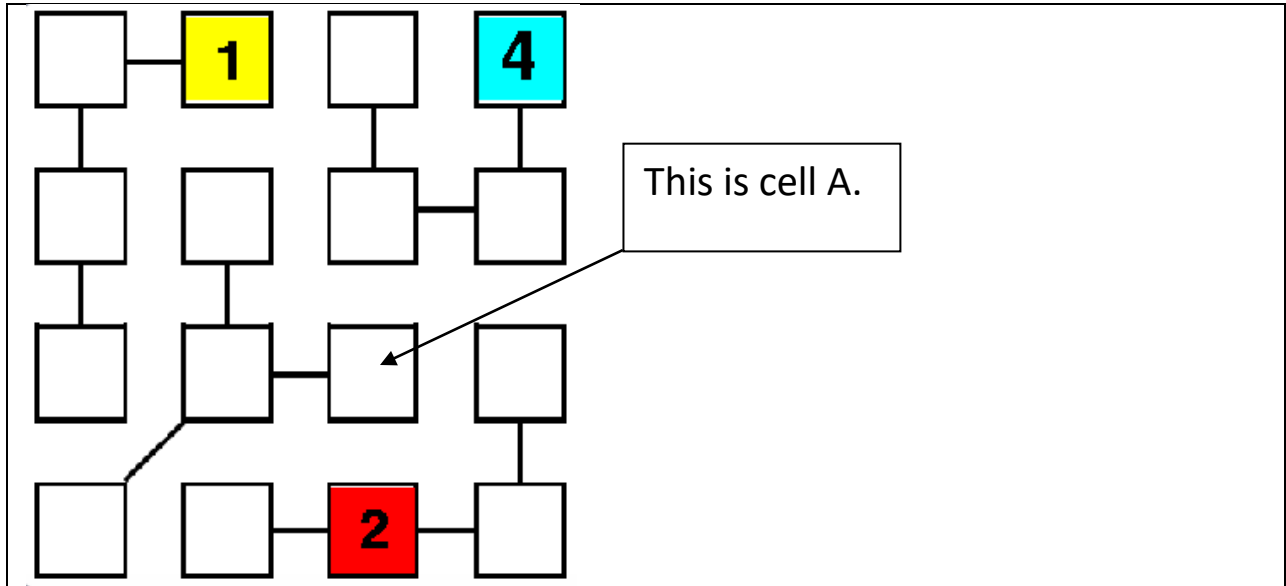
1. The values for cell A and cell B, respectively, are
 A) 4 and 1 B) 3 and 4 C) 4 and 3 D) 1 and 2

Jasmine is given the following Strimko puzzle on the left to solve. Her first move is shown on the right.



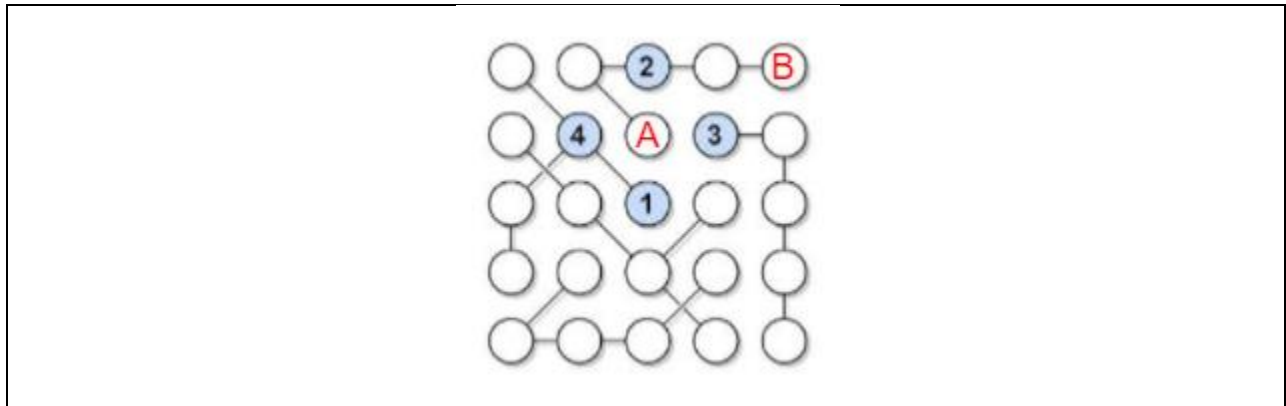
2. Explain why her move is incorrect.

Use the puzzle below to answer the next question.



3. The number for cell A is ____.

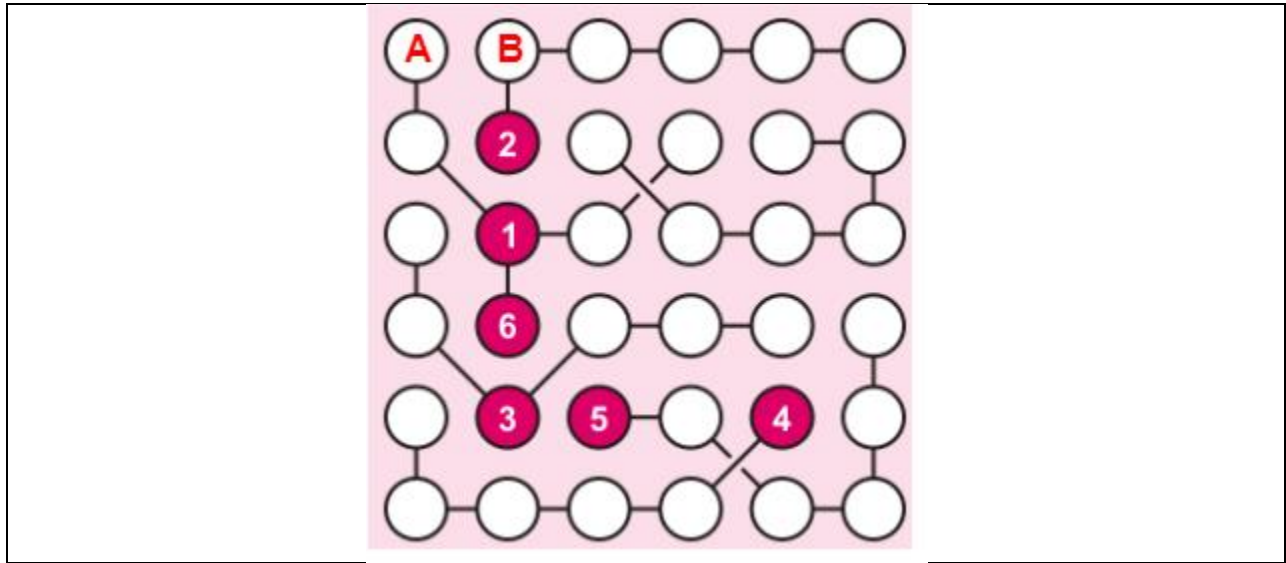
Use the puzzle below to answer the next question.



4. The values for cells A and B respectively are

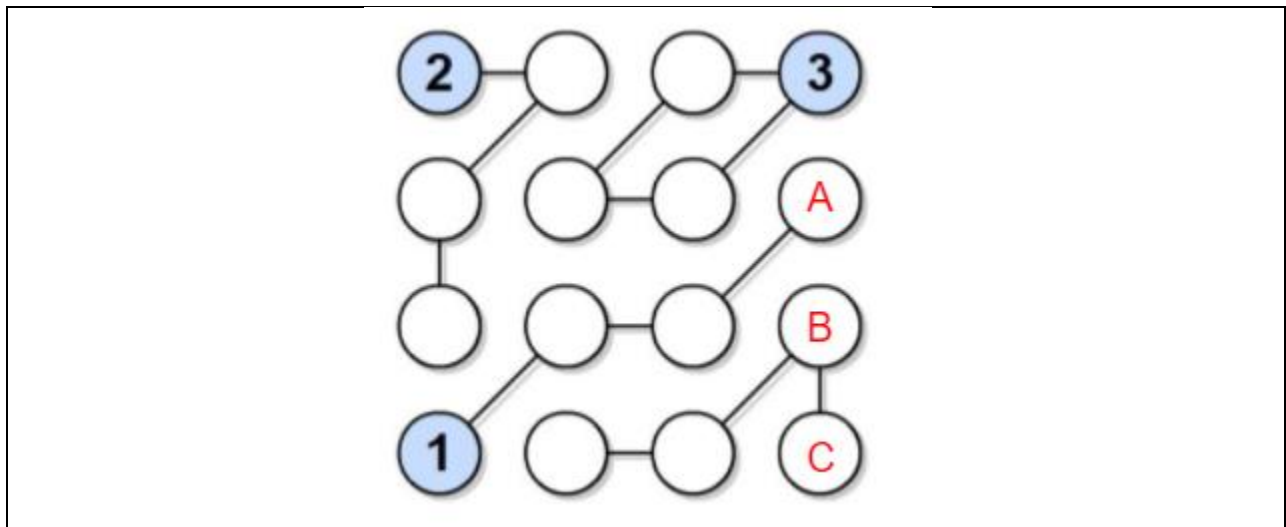
- A) 5 and 1 B) 5 and 3 C) 4 and 1 D) 4 and 3

Use the puzzle below to answer the next question.



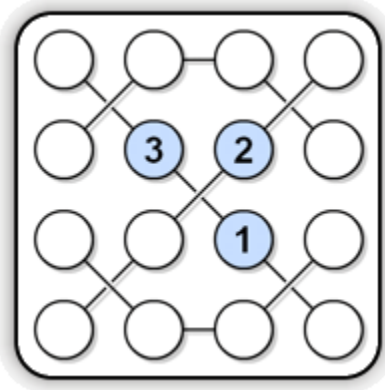
5. Determine the numbers that are placed in cells A and B. The **sum** of these two numbers is ____.

Use the puzzle below to answer the next question.

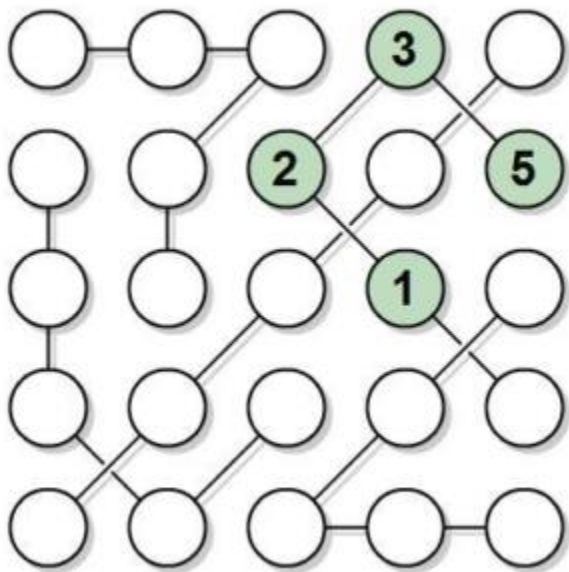


6. Complete the column to the far right by determining the values of A, B, and C.

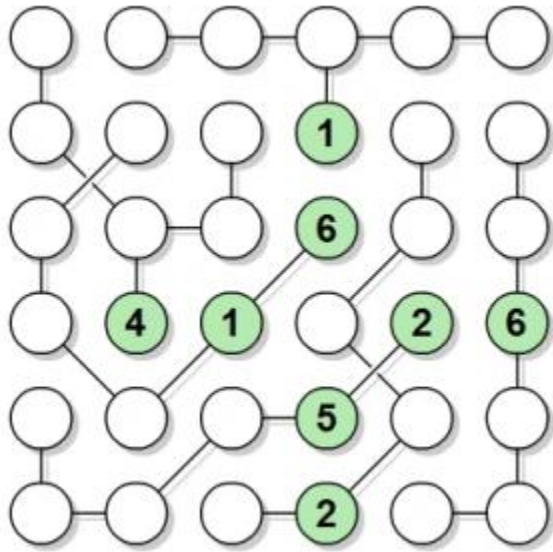
7. Solve the following puzzle.



8. Solve the following puzzle.

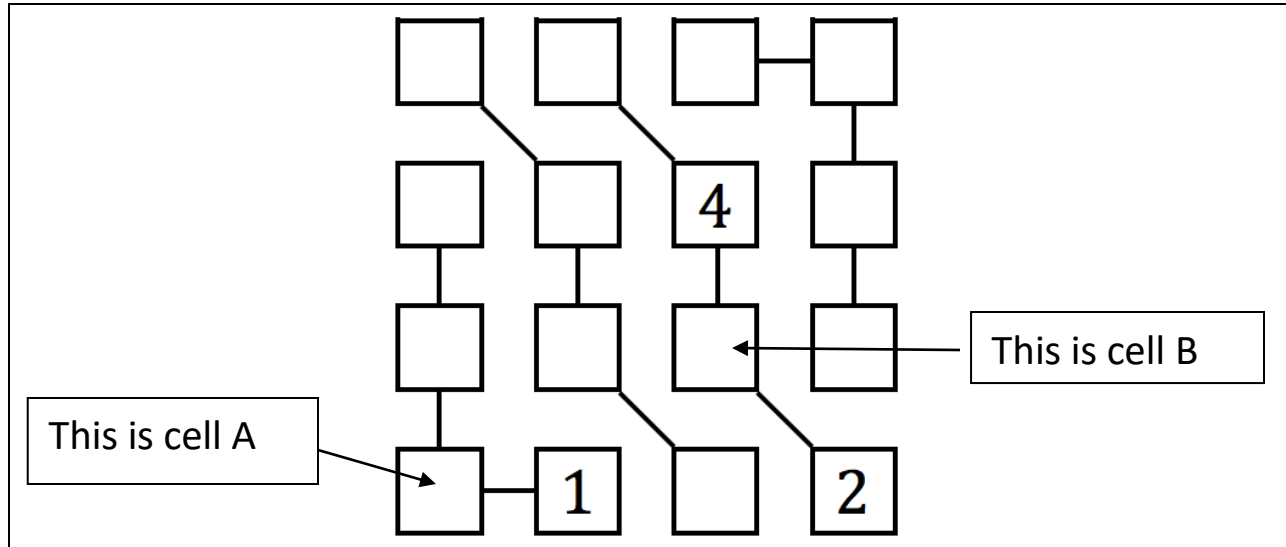


9. Solve the following puzzle.



Logical Reasoning - Strimko Practice Solutions

Use the puzzle below to answer the first question.



1. The values for cell A and cell B, respectively, are

A) 4 and 1

B) 3 and 4

C) 4 and 3

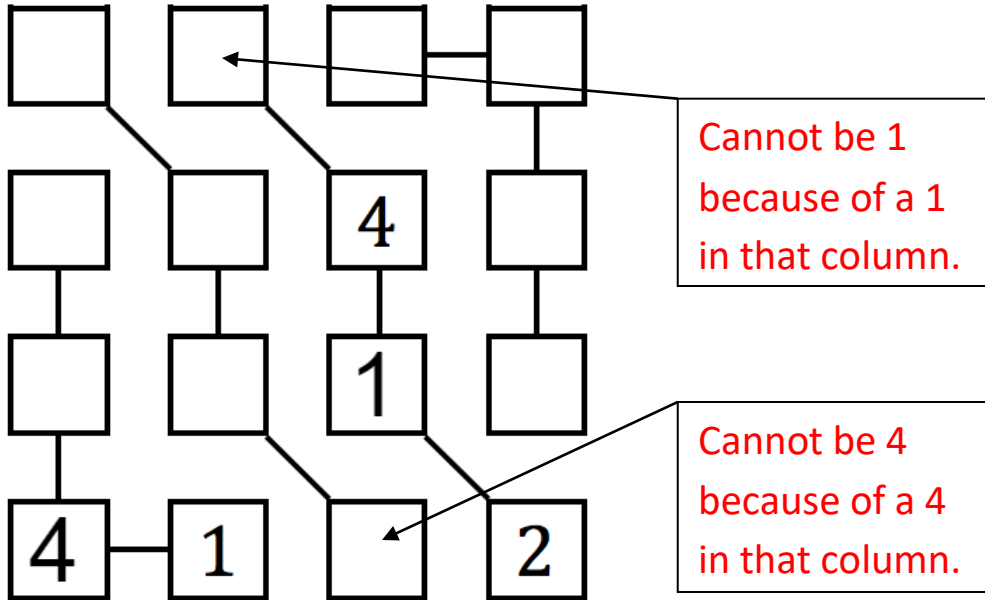
D) 1 and 2

Solution

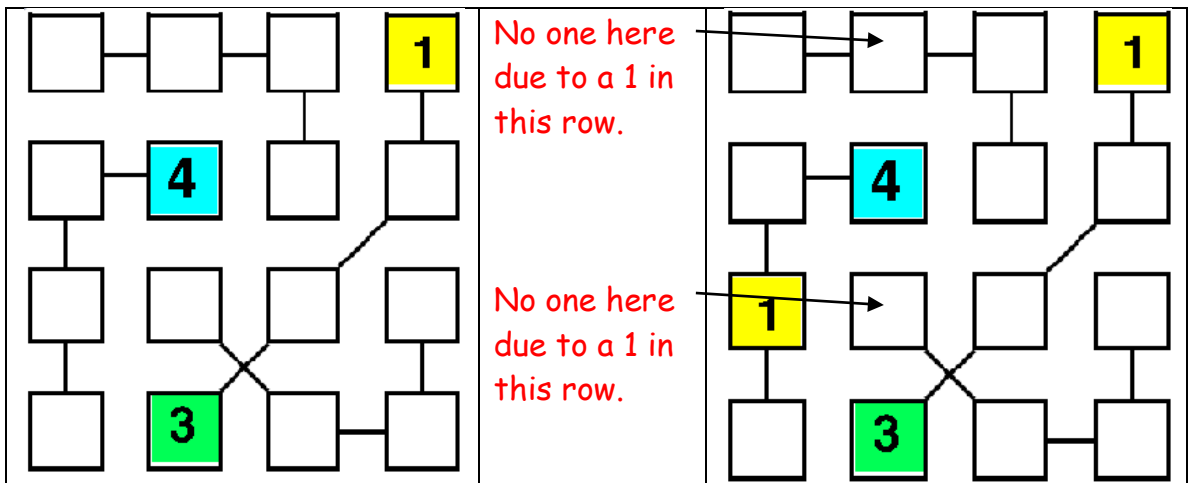
Cell A must be 4. In the bottom row, two of the four possible numbers are given (1 and 2) and we are missing 3 and 4. It is not possible to place 4 between 1 and 2 because there is a 4 in that column.

Cell B must be 1. In the stream that contains 2 and 4, the missing numbers are 1 and 3. The 1 cannot go in the cell for that stream in row one, because there is a 1 in that column.

The correct answer is A.



Jasmine is given the following Strimko puzzle on the left to solve. Her first move is shown on the right.

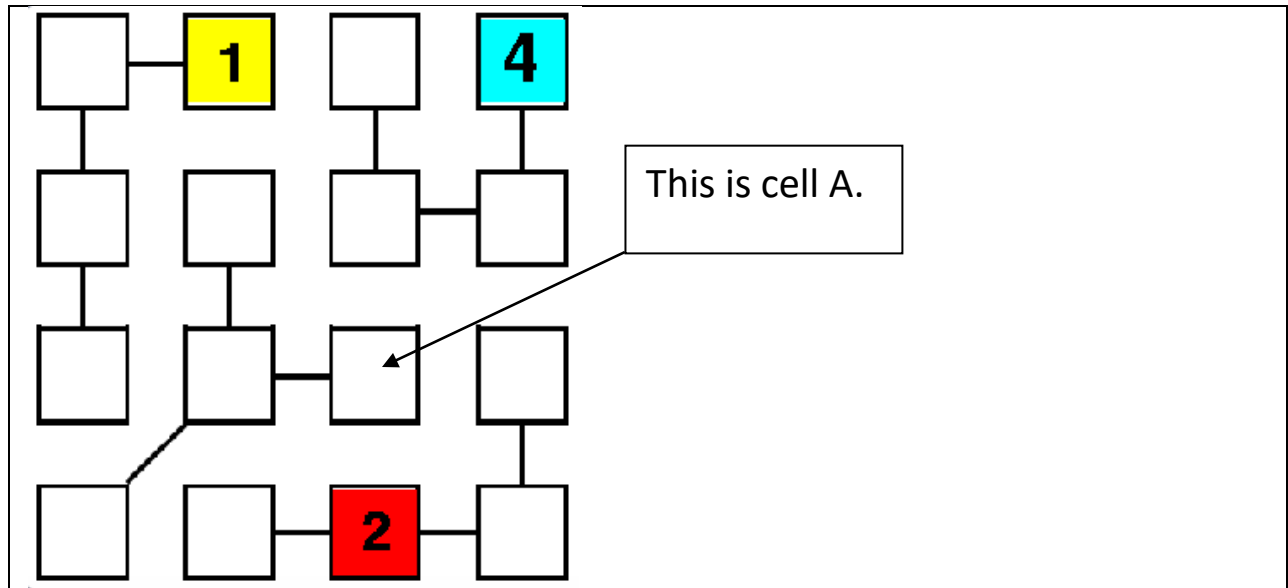


2. Explain why her move is incorrect.

Solution

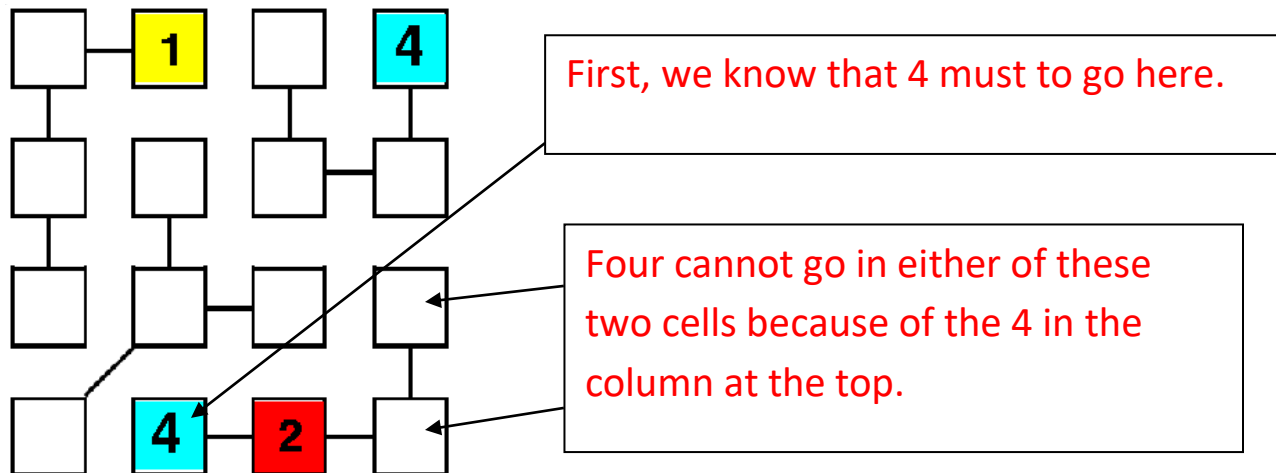
By placing 1 in that cell, the column containing 4 and 3 would not have a 1 in that column.

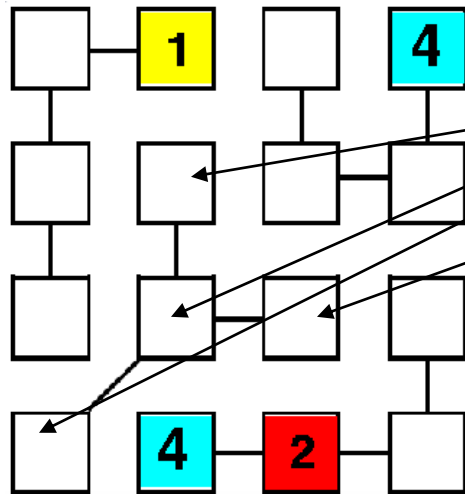
Use the puzzle below to answer the next question.



3. The number for cell A is 4.

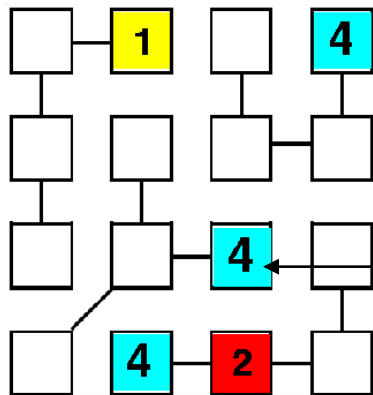
Solution





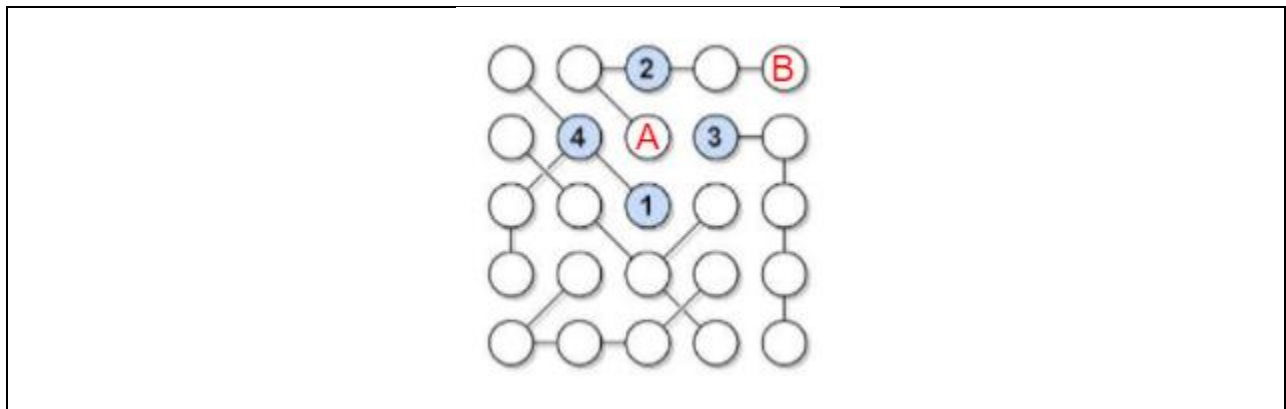
Look at the 4 cells in this stream.

Four is not possible in three of them; meaning there is only one cell for the 4.



The value of cell A is 4.

Use the puzzle below to answer the next question.

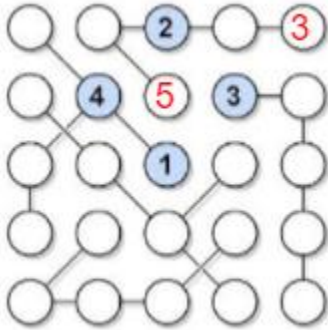


4. The values for cells A and B respectively are
- A) 5 and 1
 - B) 5 and 3
 - C) 4 and 1
 - D) 4 and 3

Solution

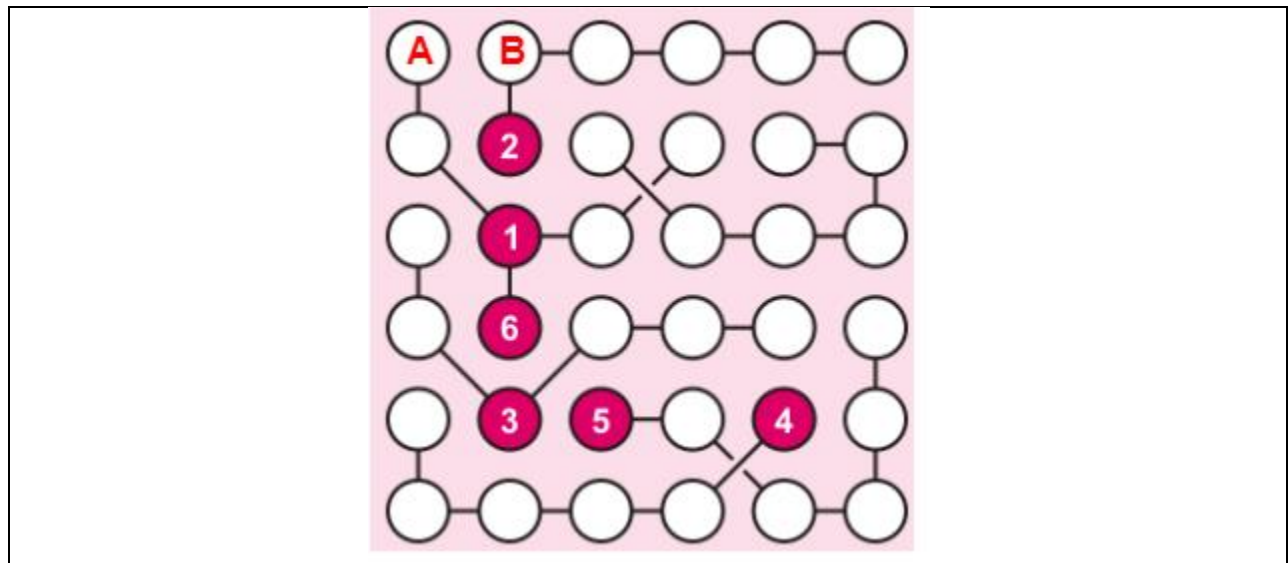
Cell A cannot be 1, 2, 3, or 4 because these numbers are all in adjacent rows or columns. Therefore, A = 5.

The 3 given in the diagram is connected to a stream that includes 4 cells in the last column. Since 3 is not possible in any of these four cells, B = 3.



The correct answer is B.

Use the puzzle below to answer the next question.

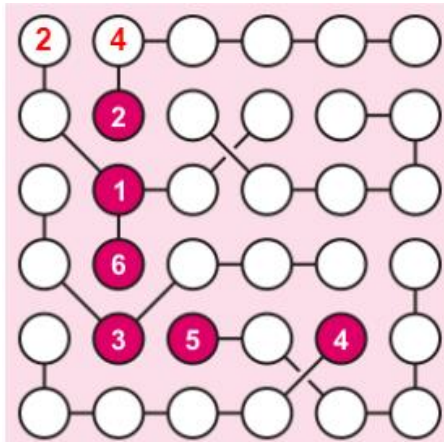


5. Determine the numbers that are placed in cells A and B. The **sum** of these two numbers is 6.

Solution

The column containing the four given numbers (2,1,6, and 3) is missing 4 and 5. Since 4 cannot go in the last cell of the column (that cell is connected to a stream already containing 4), it must go in the top in cell B.

The given number of 2 is connected to a stream that includes 5 cells in row one. This means that there is only one possible cell for 2, and that is cell A.

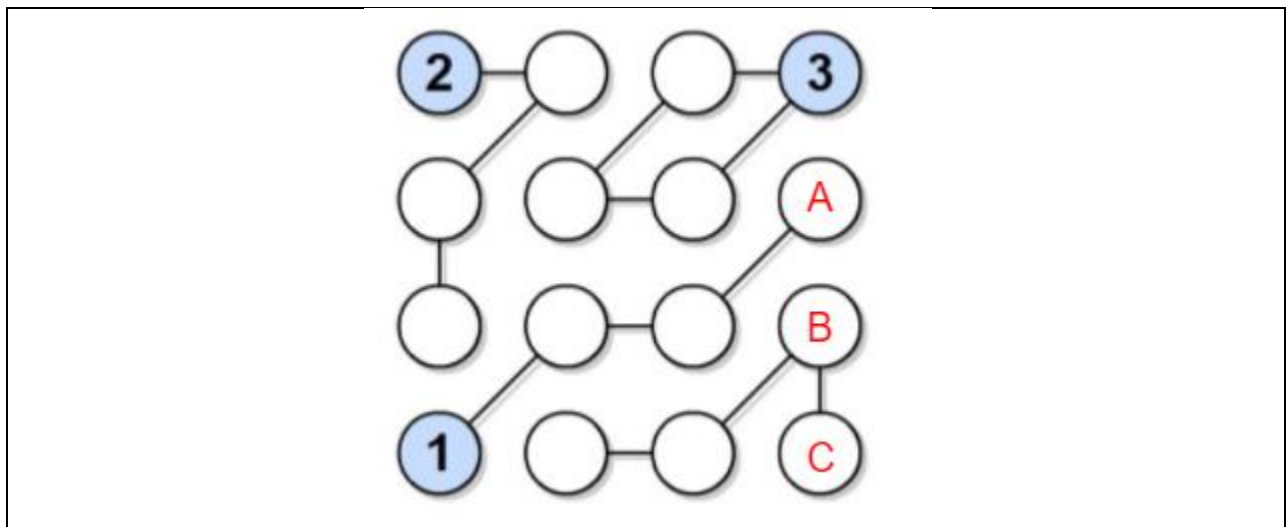


Cell A = 2

Cell B = 4

Their sum is 6.

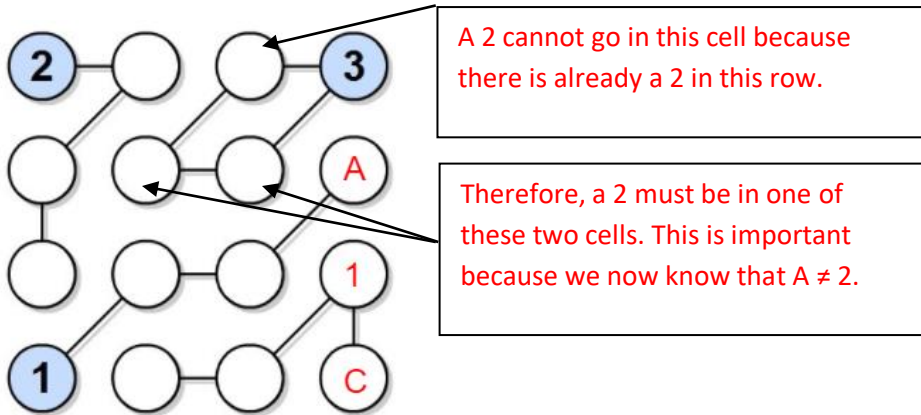
Use the puzzle below to answer the next question.



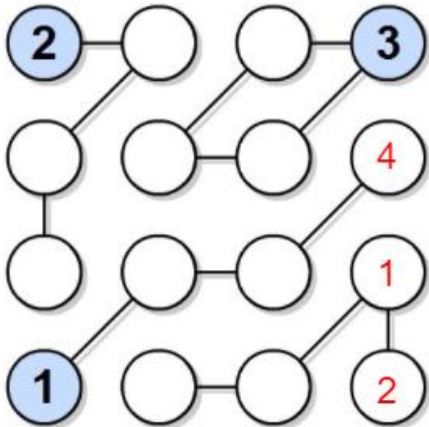
6. Complete the column to the far right by determining the values of A, B, and C.

Solution

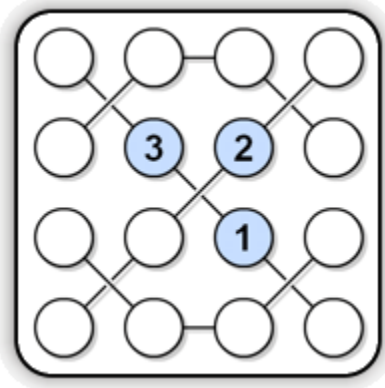
The column is missing the numbers 1, 2, and 4. The number 1 cannot go in cells A or C because of a connected stream or a row already having a 1. Thus, B = 1.



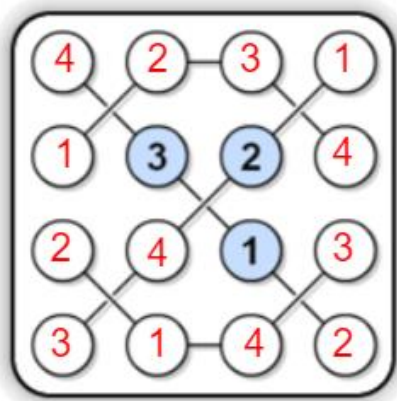
Therefore, $A = 4$ and $C = 2$.



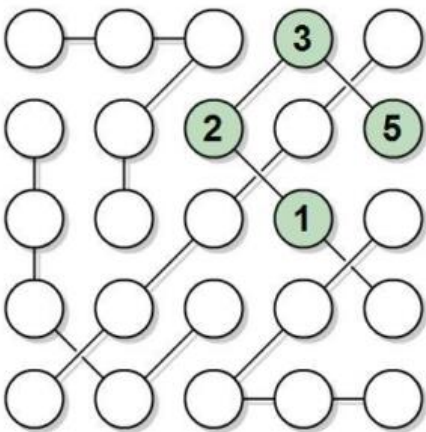
7. Solve the following puzzle.



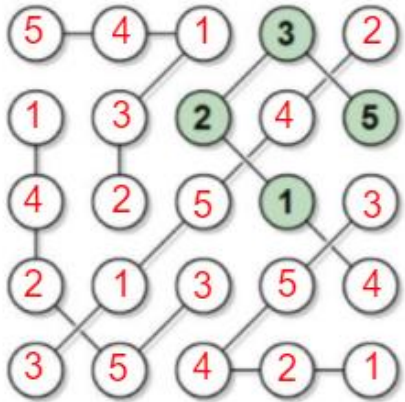
Solution



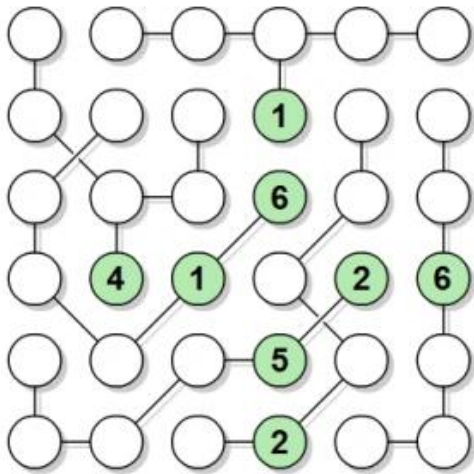
8. Solve the following puzzle.



Solution

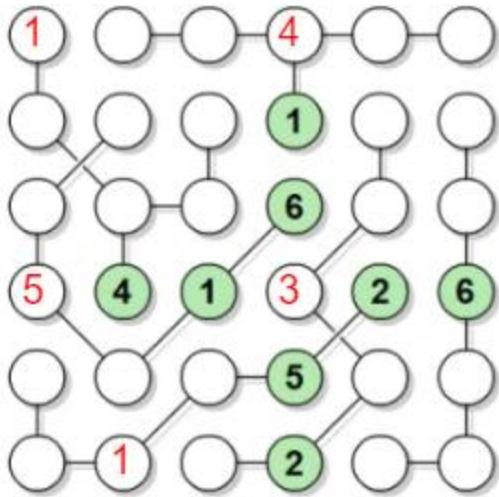


9. Solve the following puzzle.



Solution

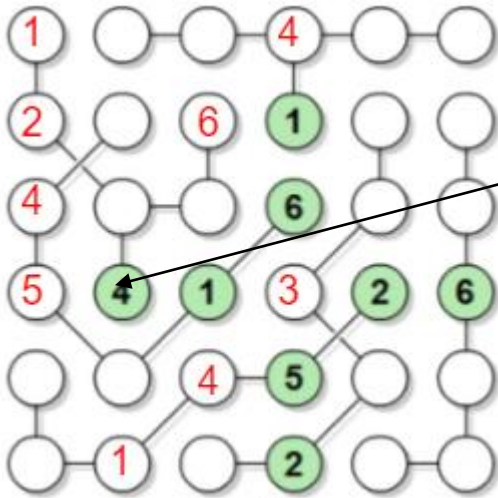
One possible solution for the first 5 numbers is:



The numbers I placed in order were:

- 1st = 3
- 2nd = 5
- 3rd = 4
- 4th = 1 (upper left)
- 5th = 1 (bottom row)

Here are 4 other numbers.



The order placement of these numbers:

- 1st = 4 (column 1) [THIS 4 TOOK AWAY ALL OTHER CELLS IN THIS STREAM]
- 2nd = 4 (row 5)
- 3rd = 2 [THE BOTTOM TWO NUMBERS IN THE COLUMN MUST BE 6 AND 3, IF YOU FOLLOW THAT STREAM]
- 4th = 6

The final solution.

