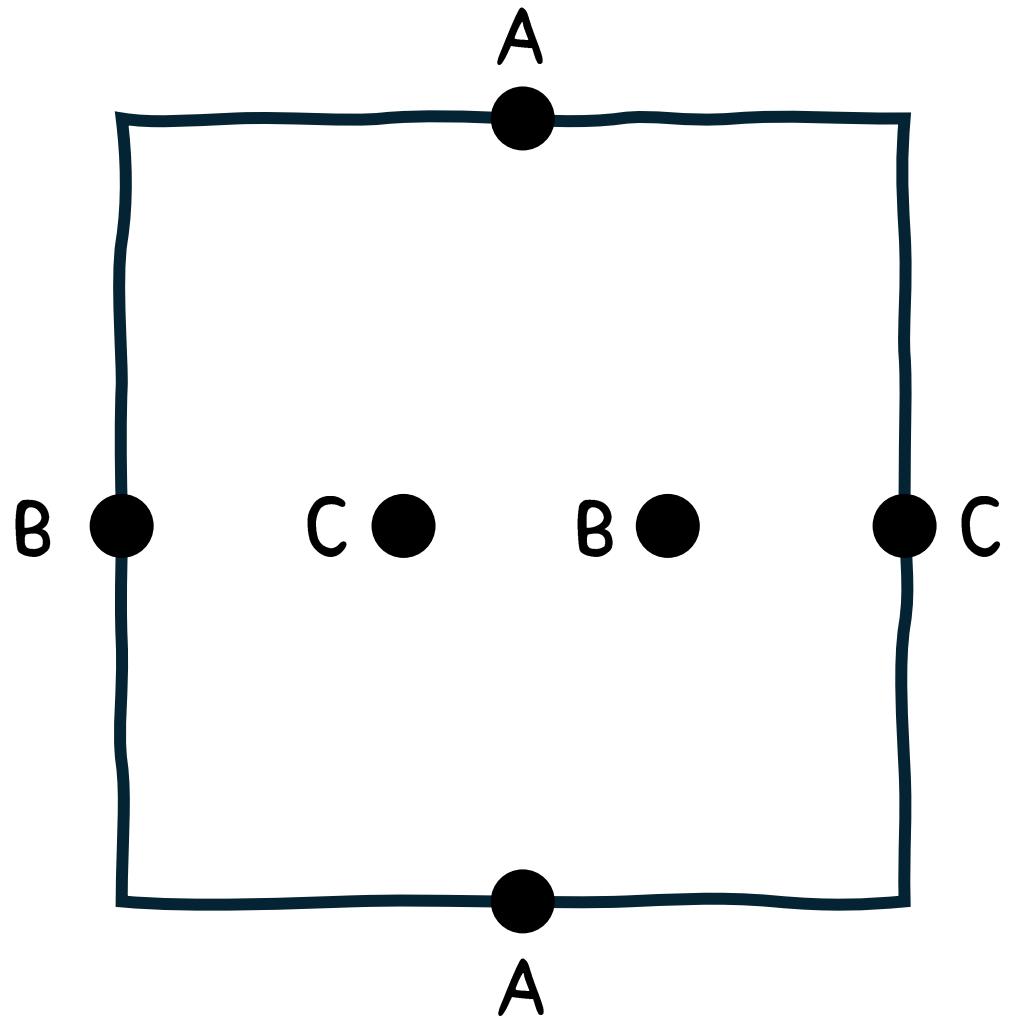


Lesson 12

Deforming things

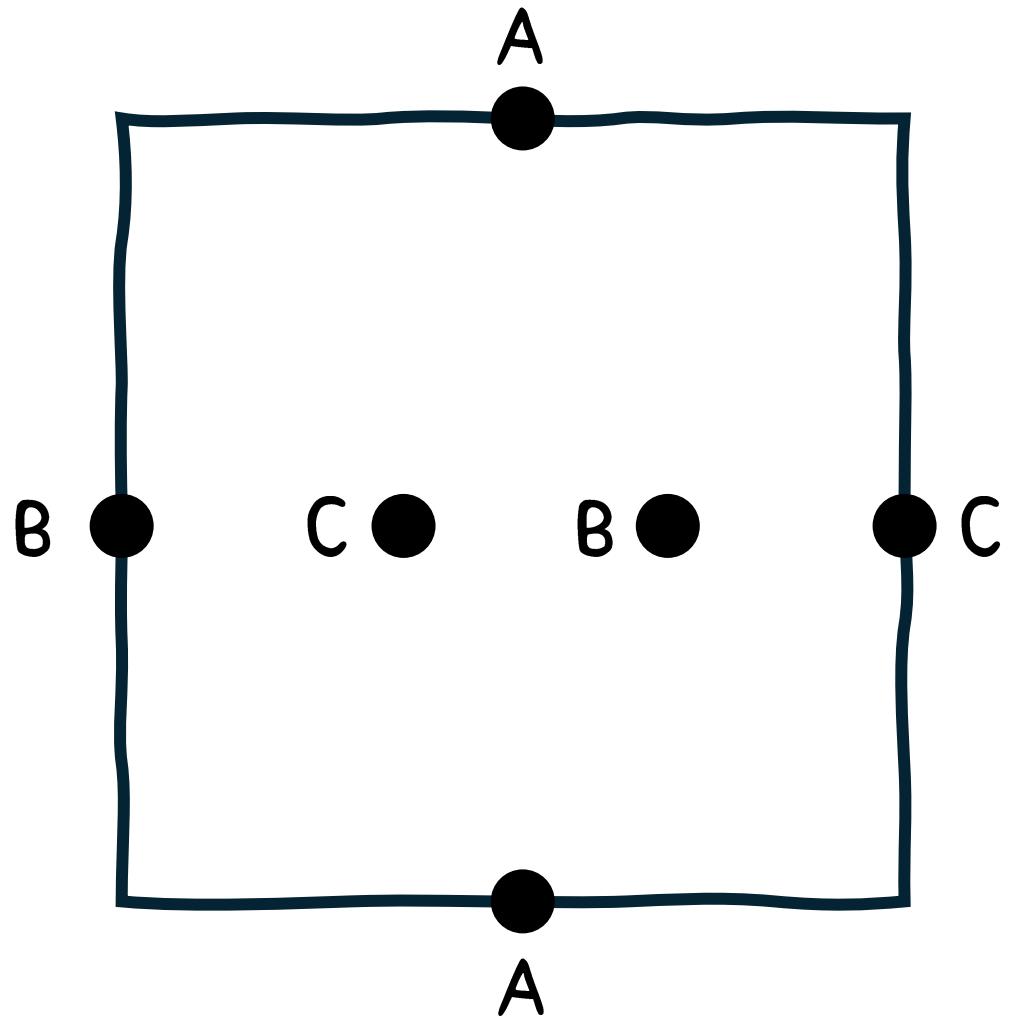
Activity

Can you connect A to A,
B to B, and C to C by
curves within the square
so that the curves don't
intersect?



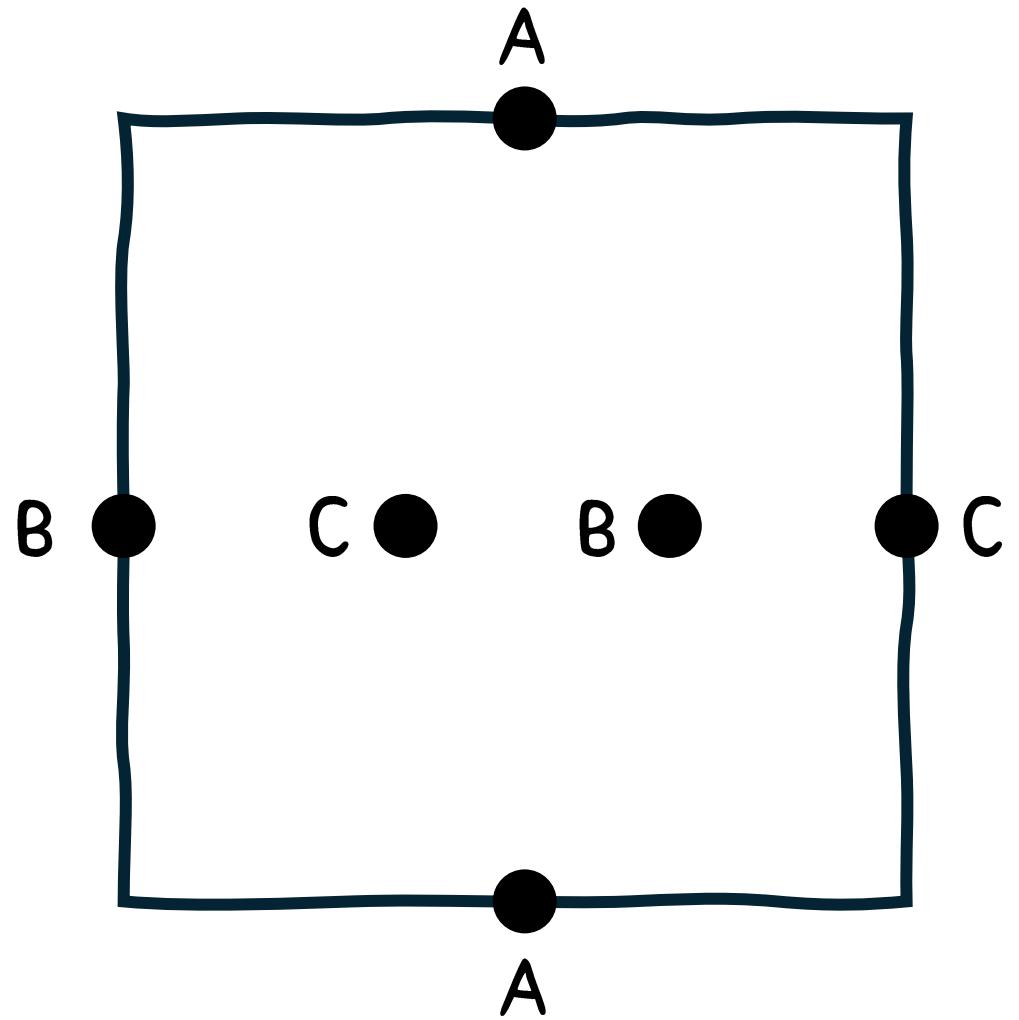
Activity Answers

Can you connect A to A,
B to B, and C to C by
curves within the square
so that the curves don't
intersect?



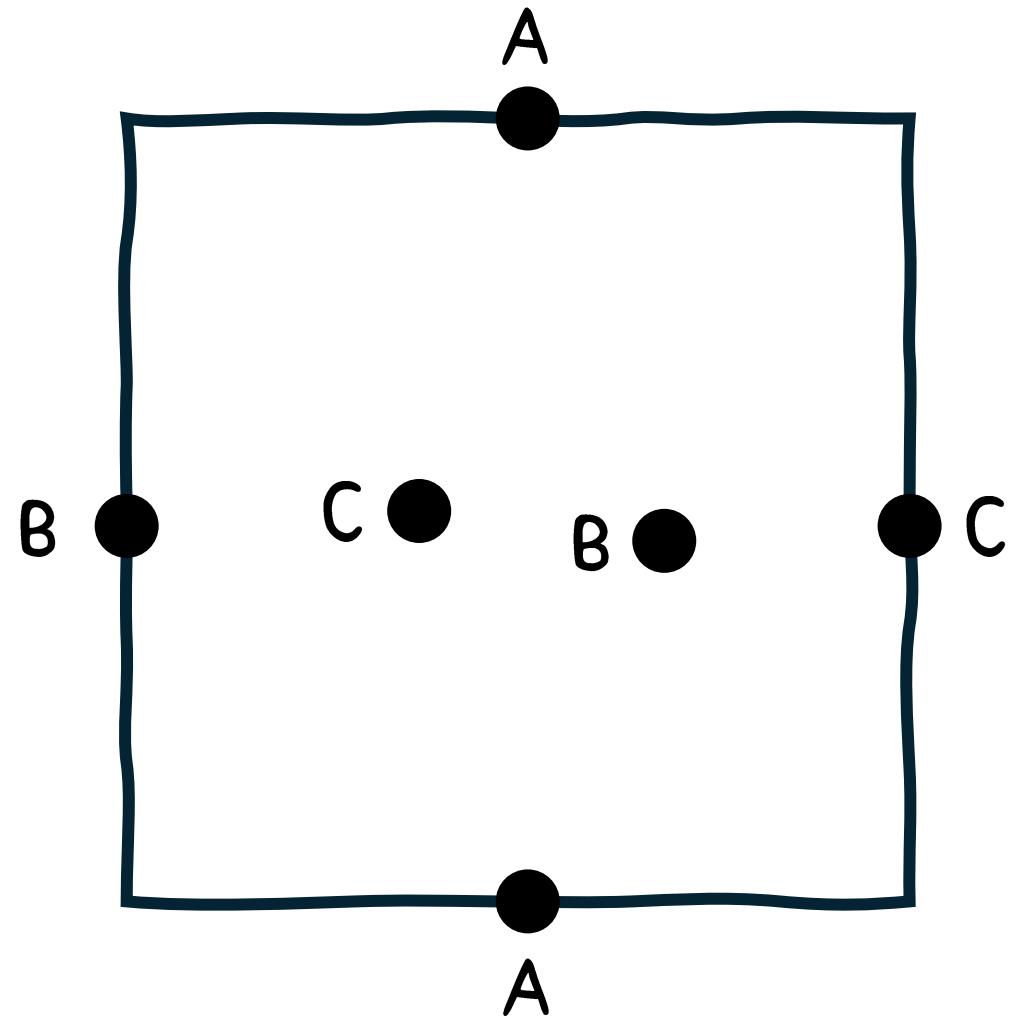
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Deform the problem.



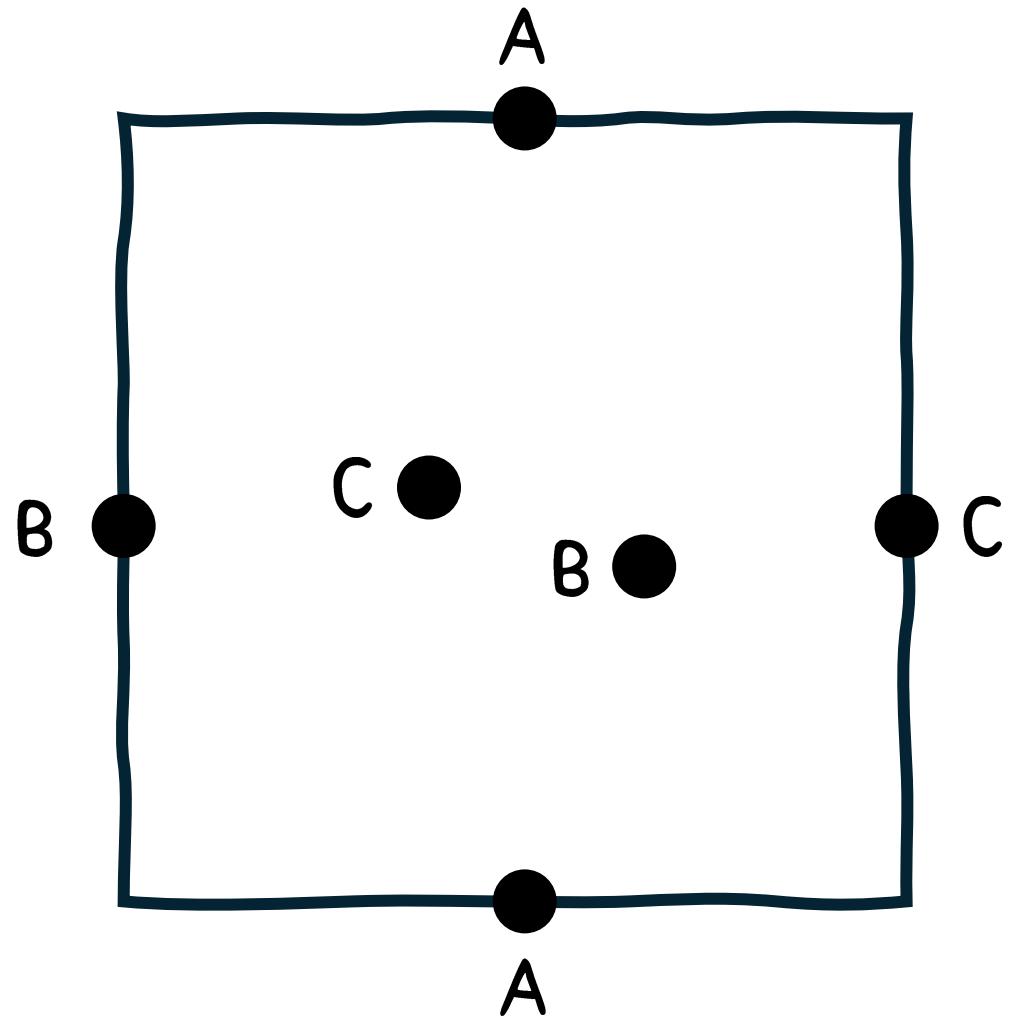
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Deform the problem.



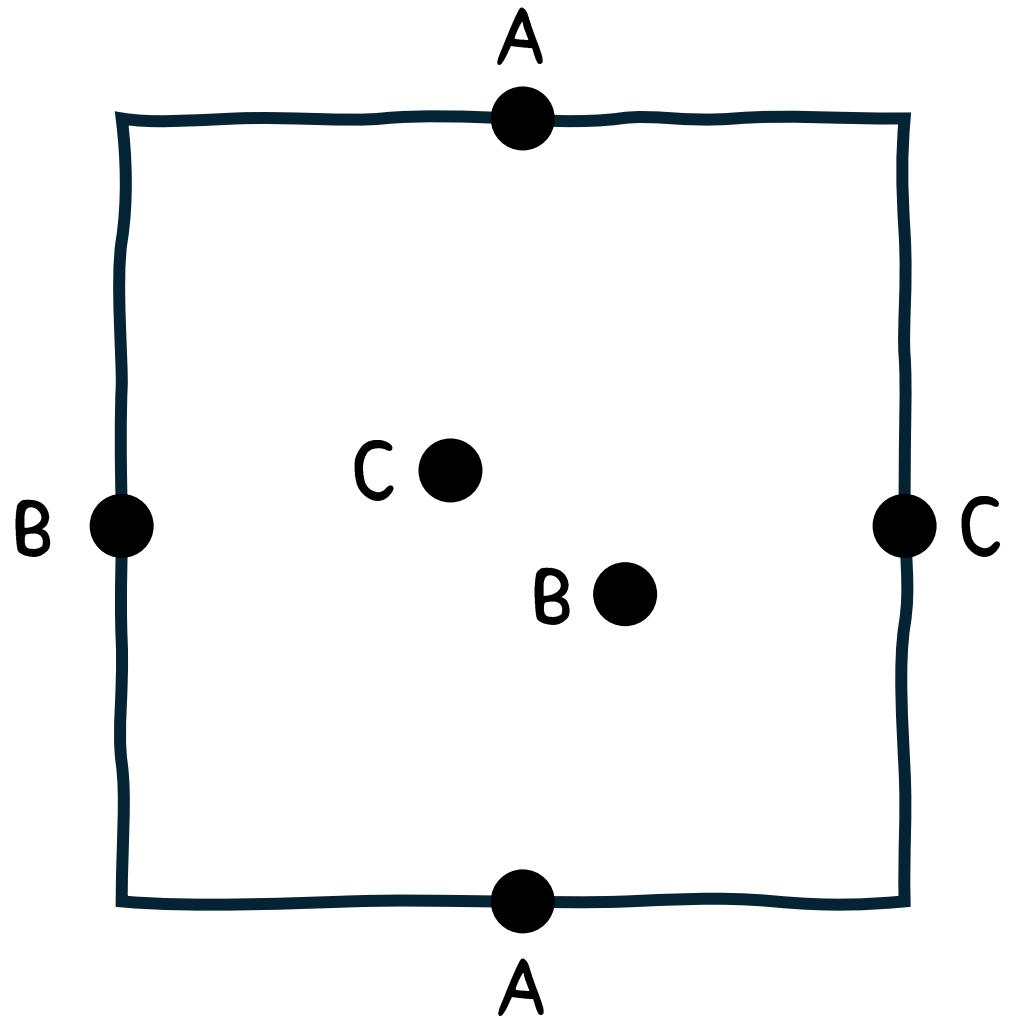
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Deform the problem.



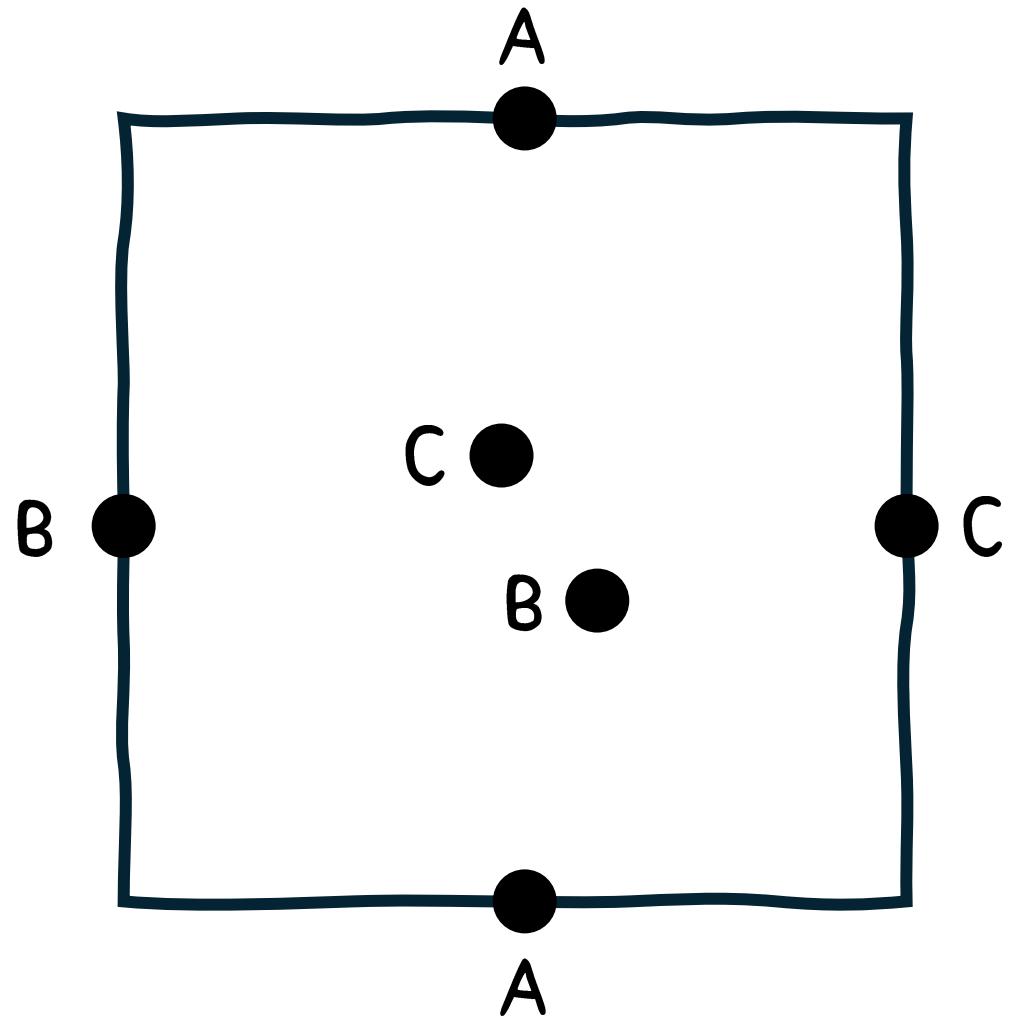
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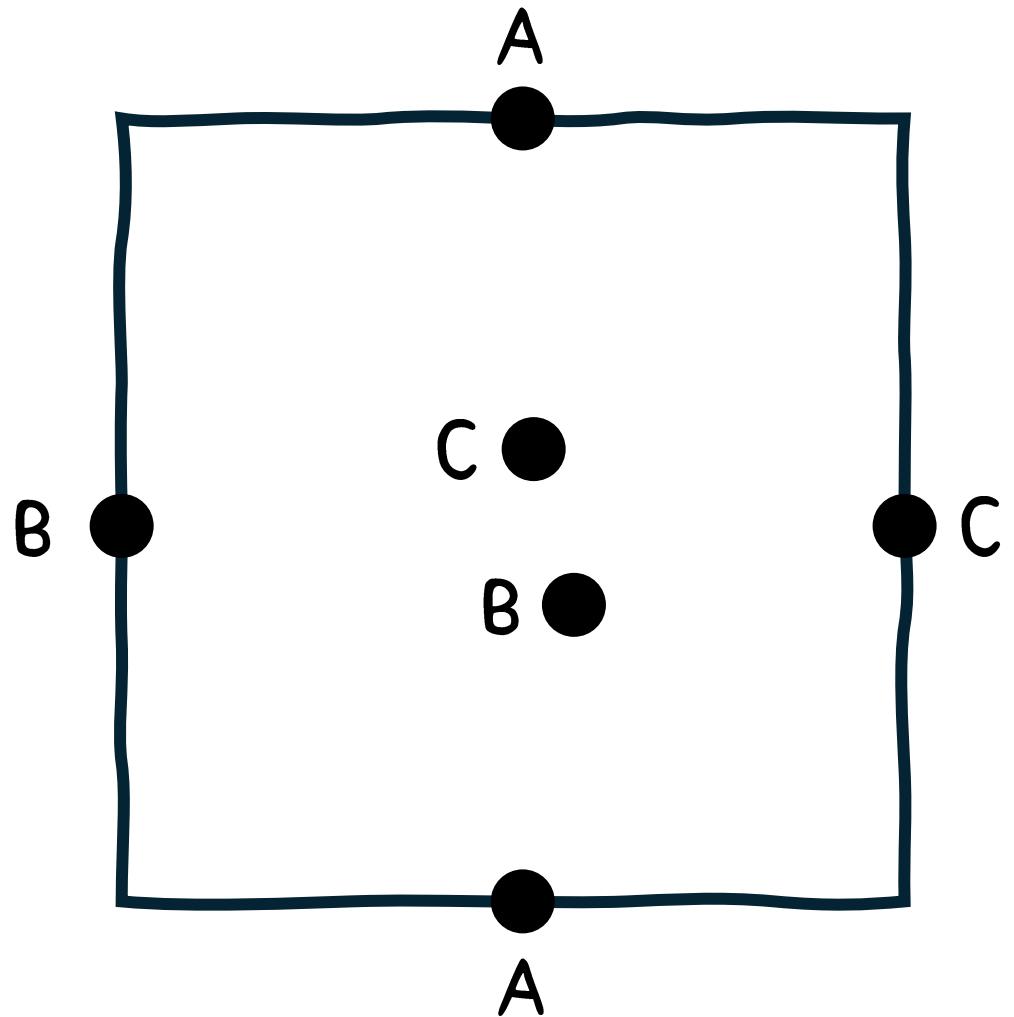
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Deform the problem.



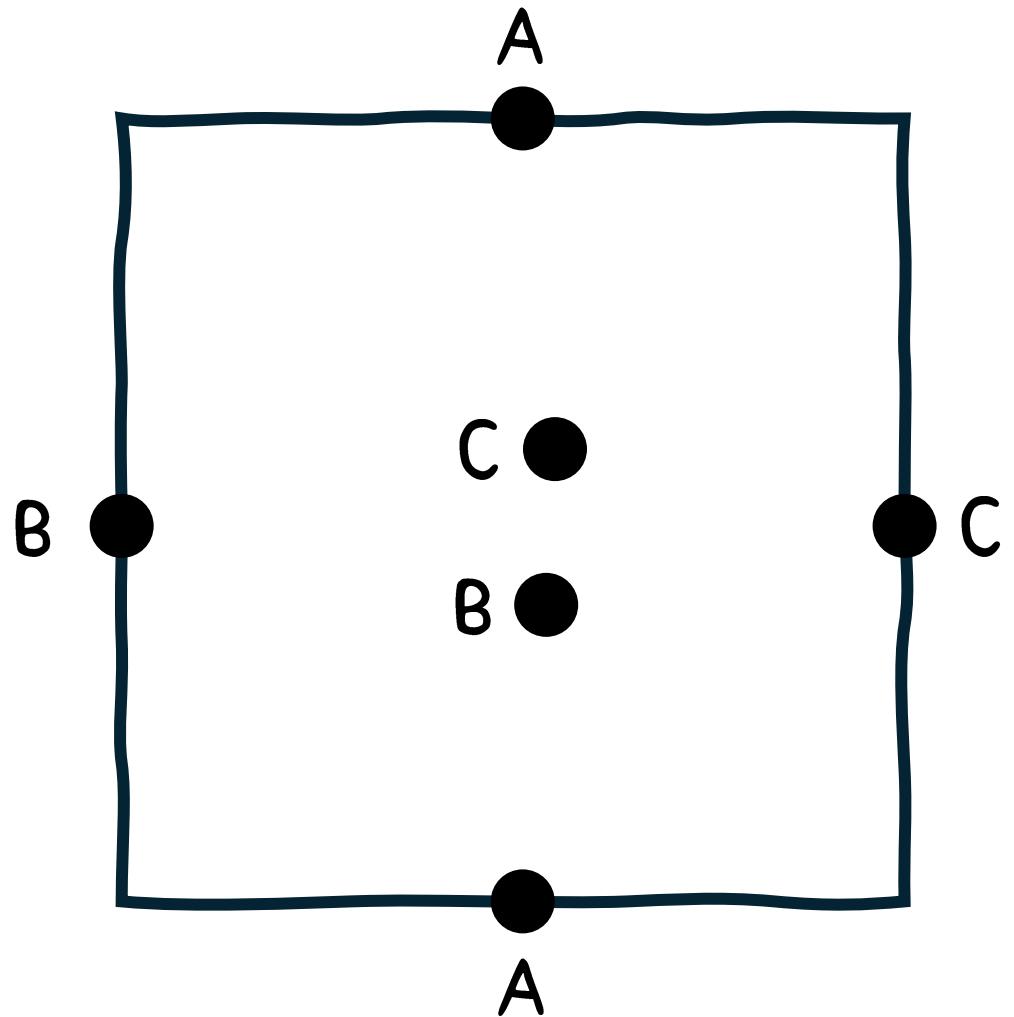
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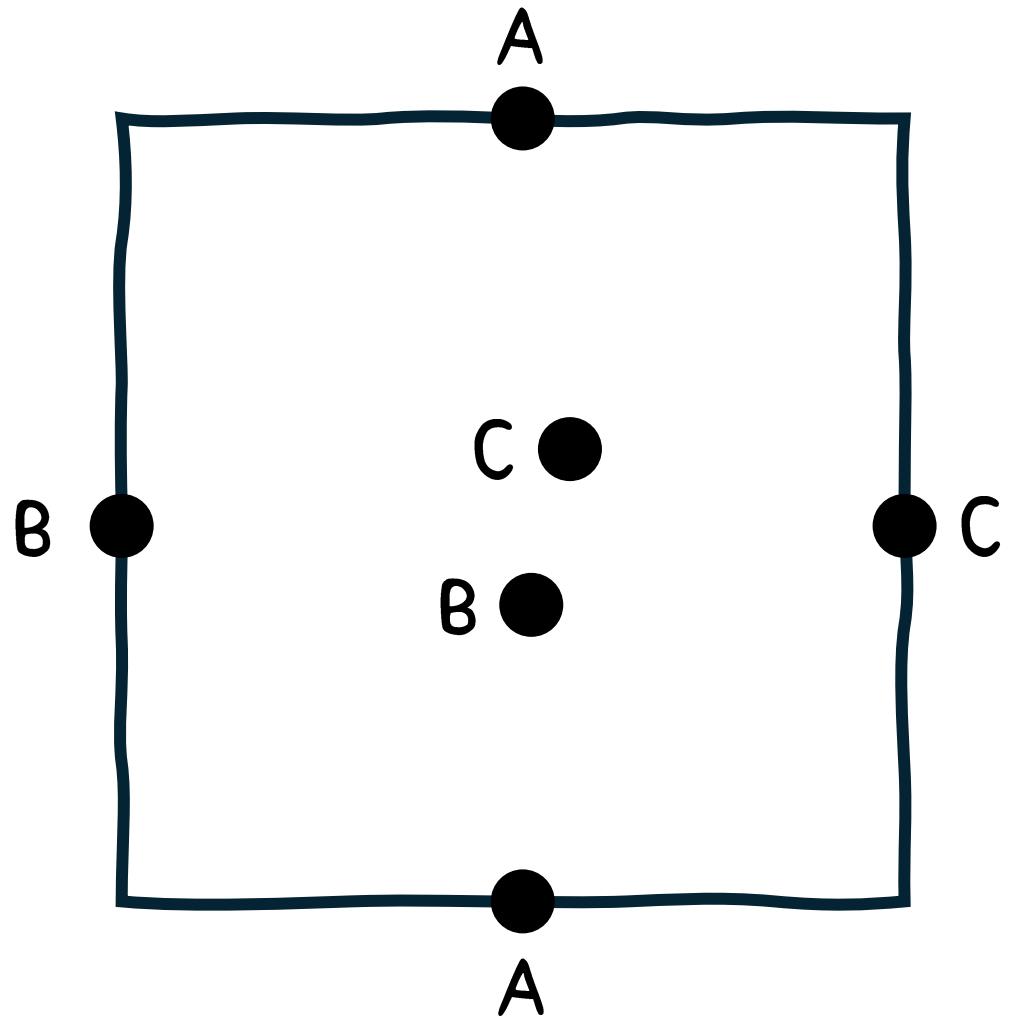
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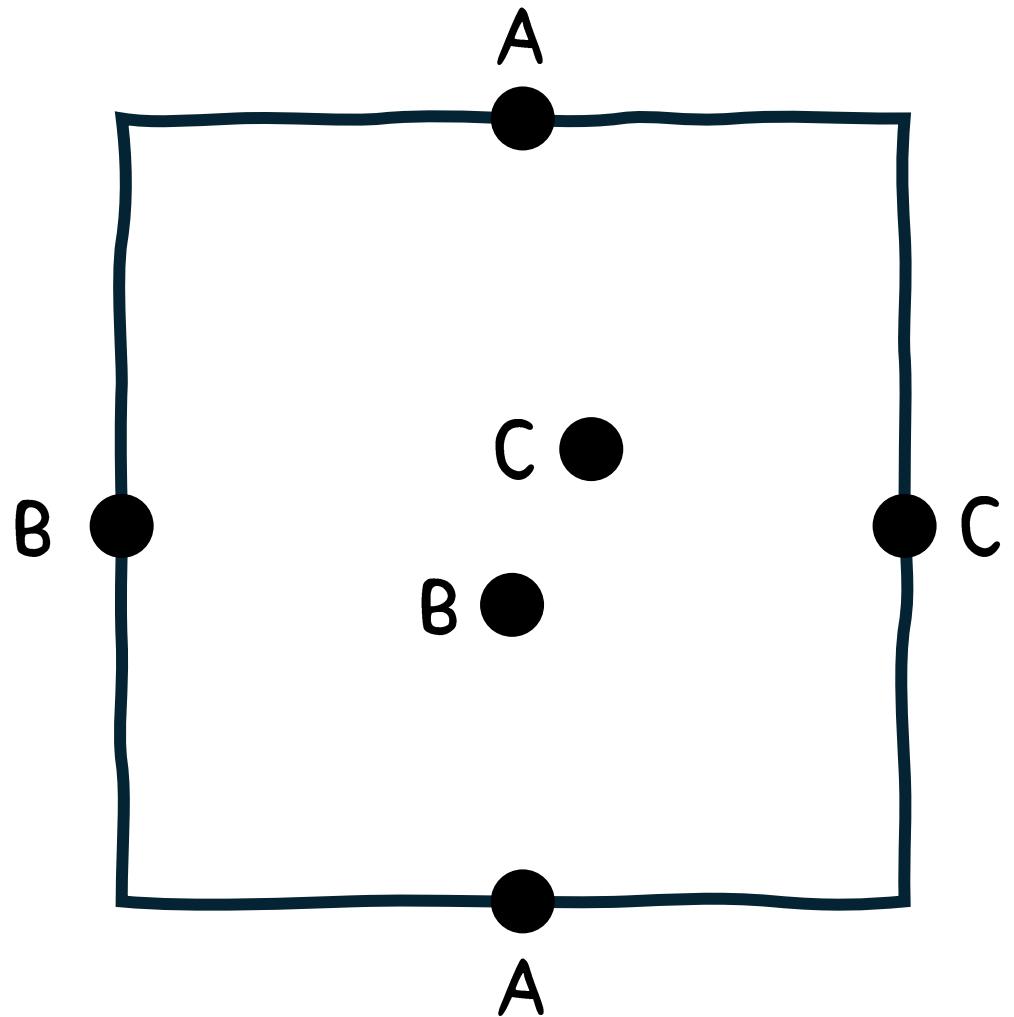
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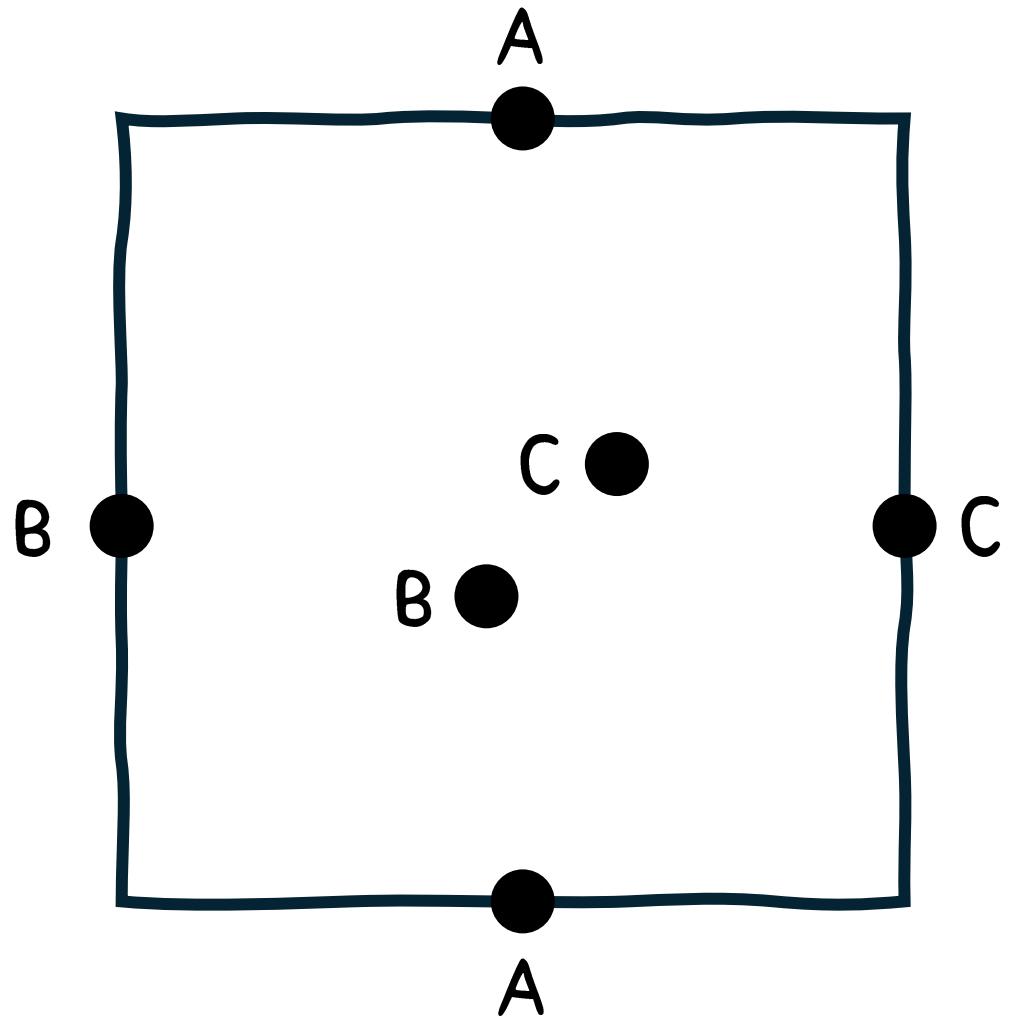
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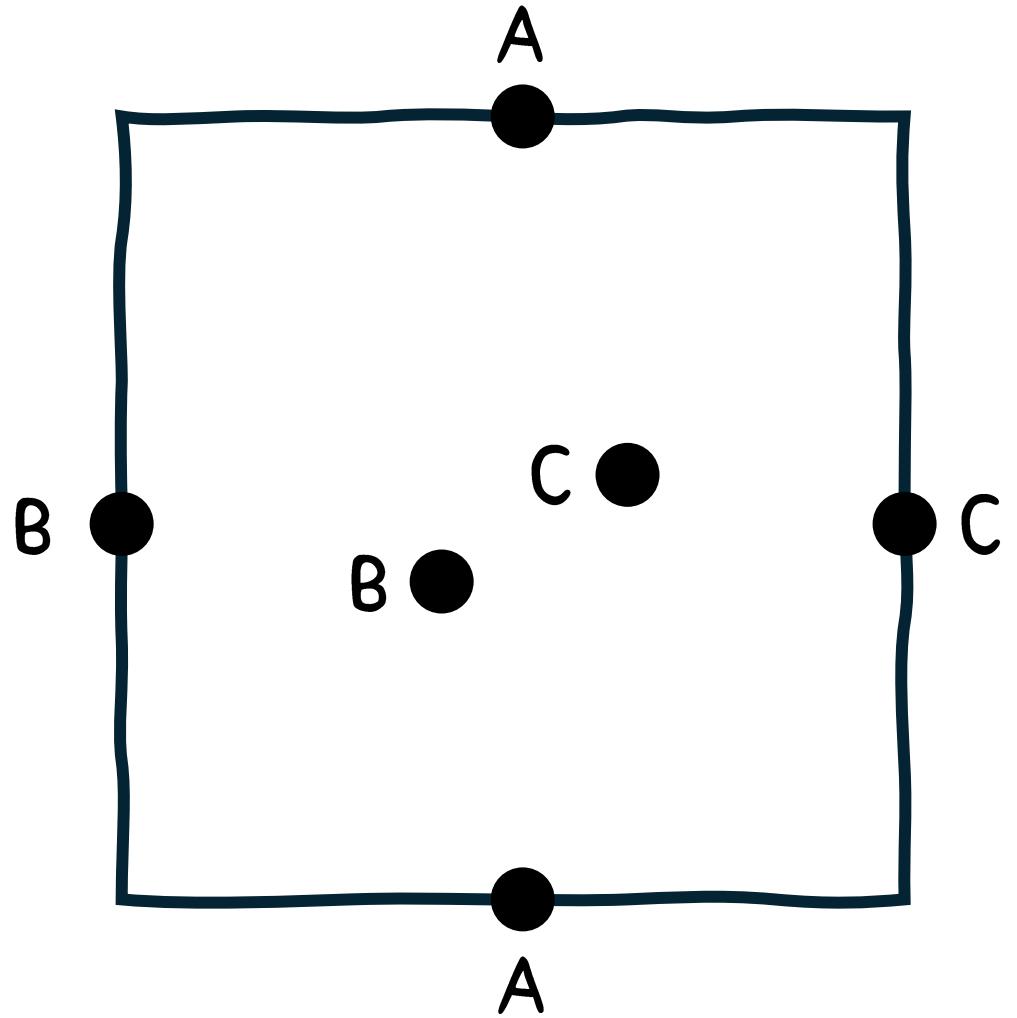
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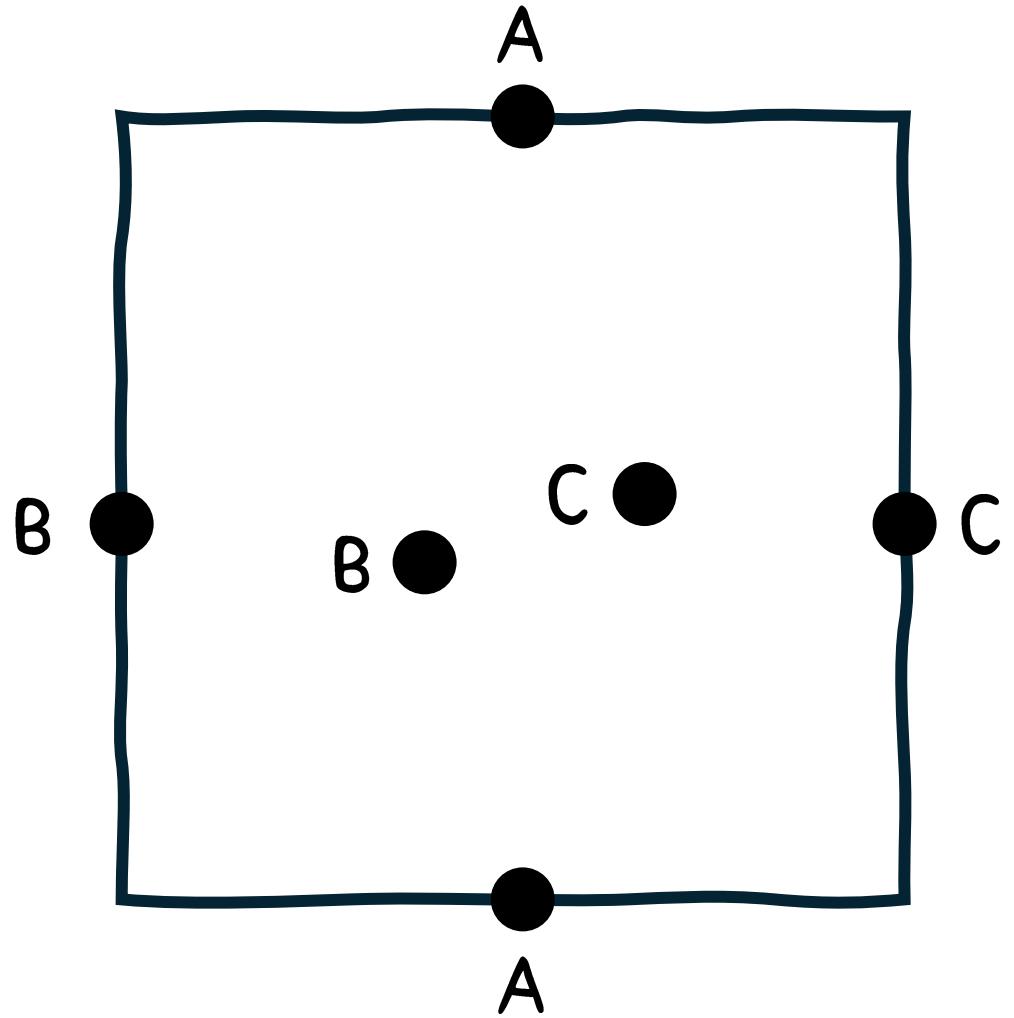
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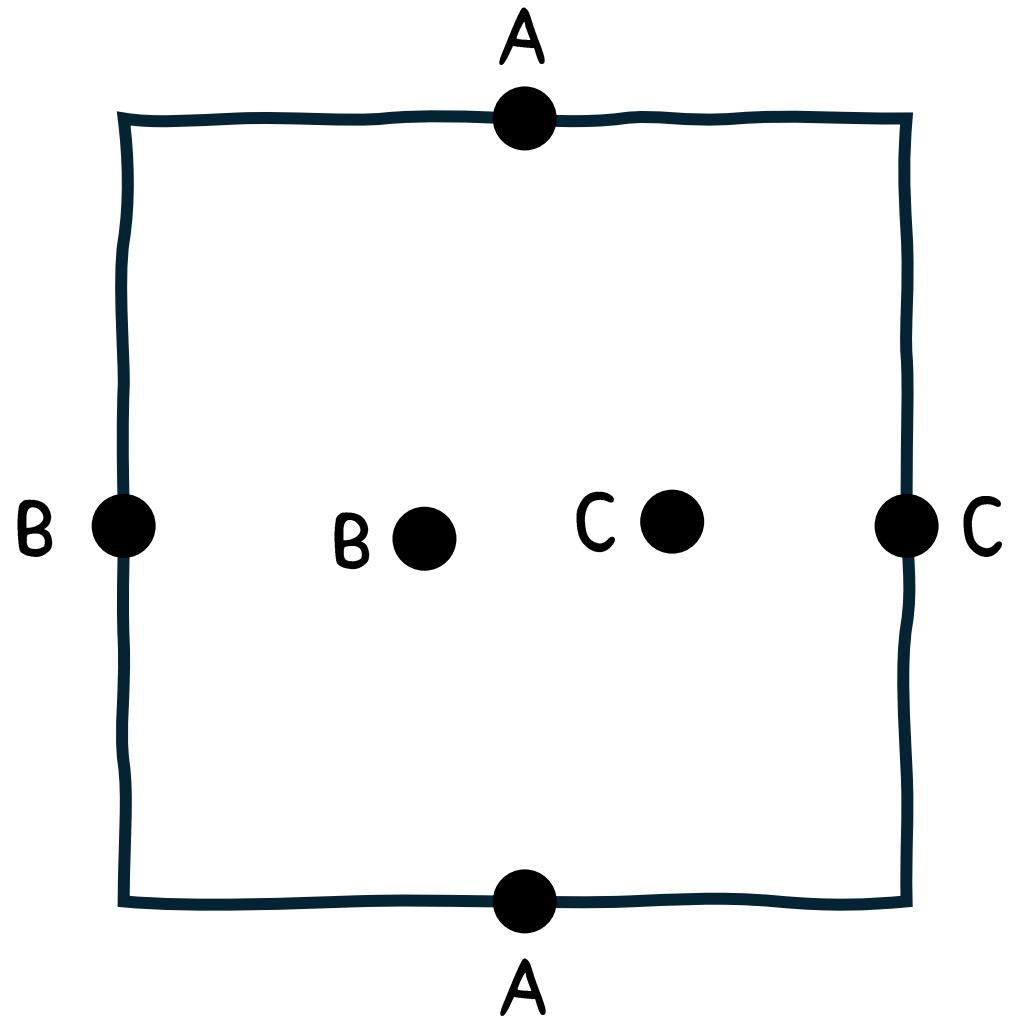
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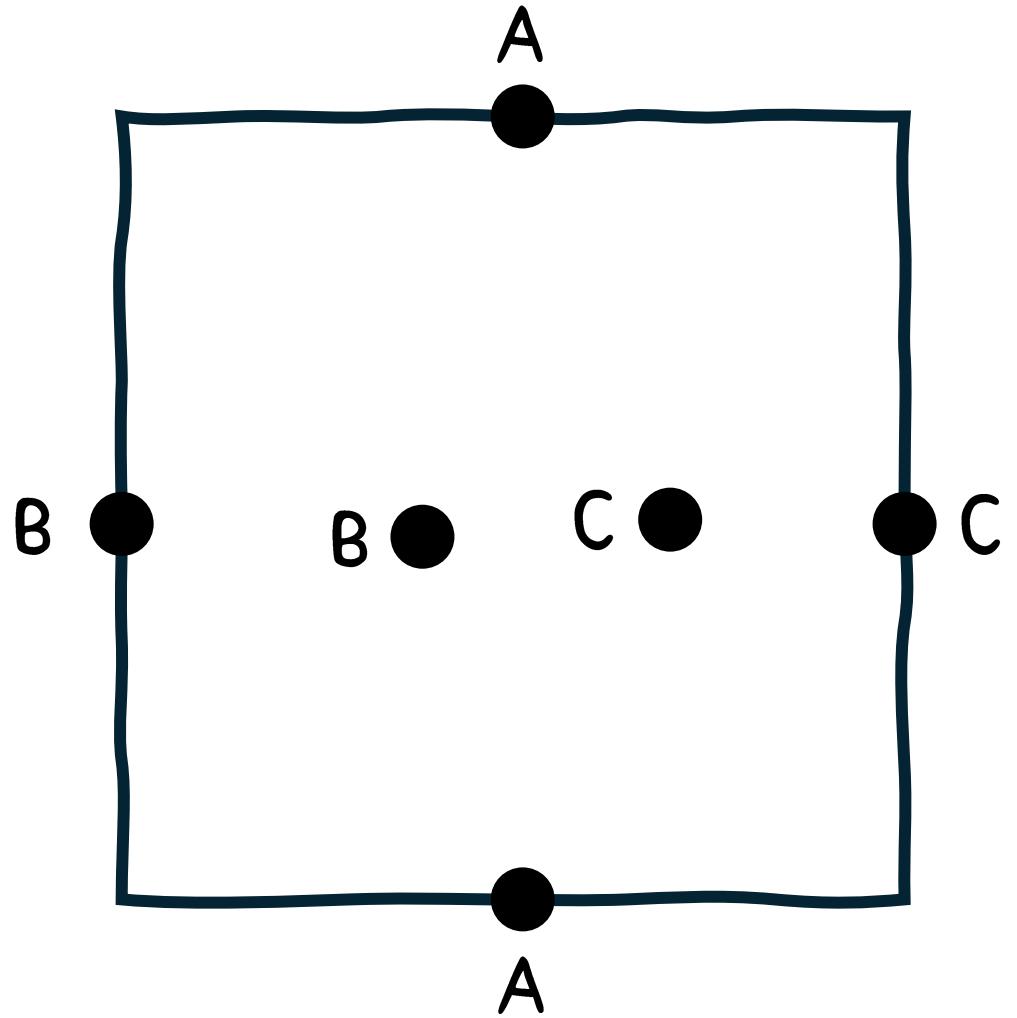
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Deform the problem.



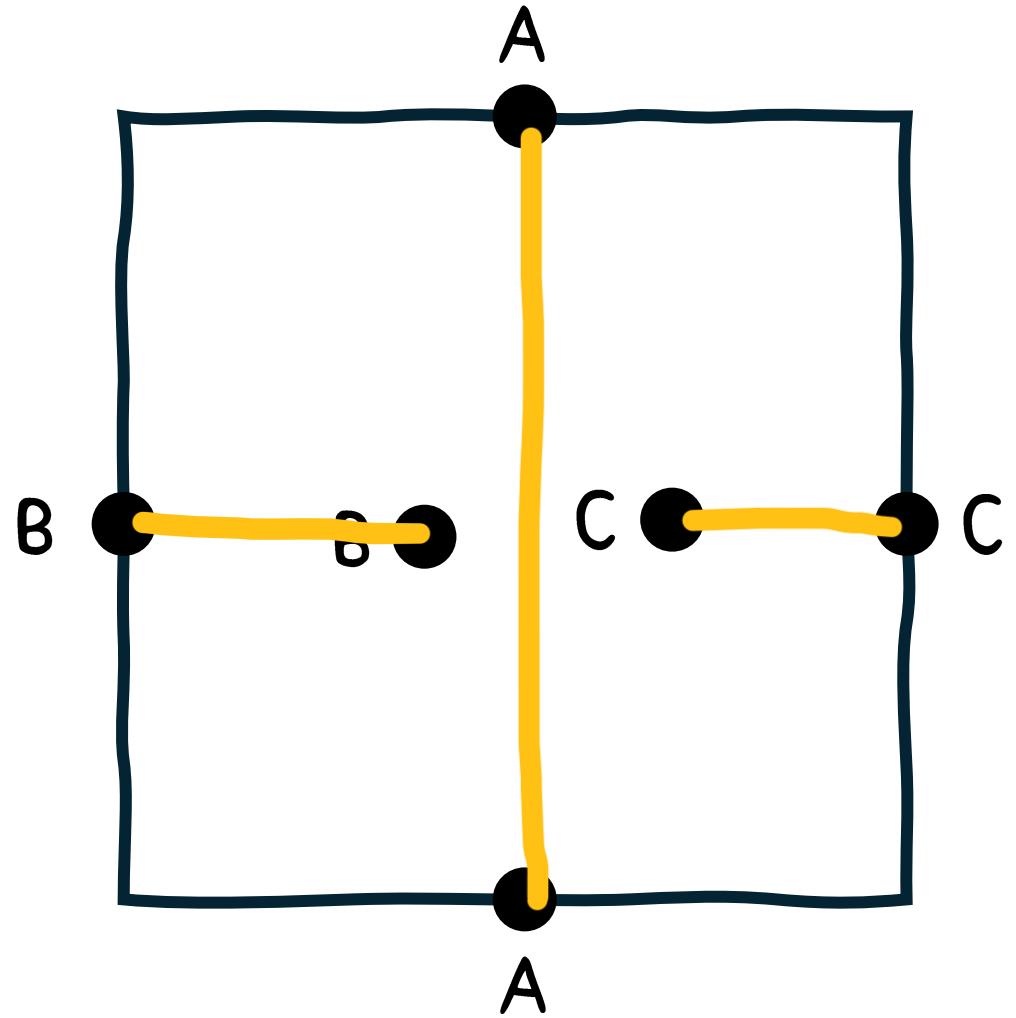
Can you connect A to A,
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Deform the problem.
Get the solution.



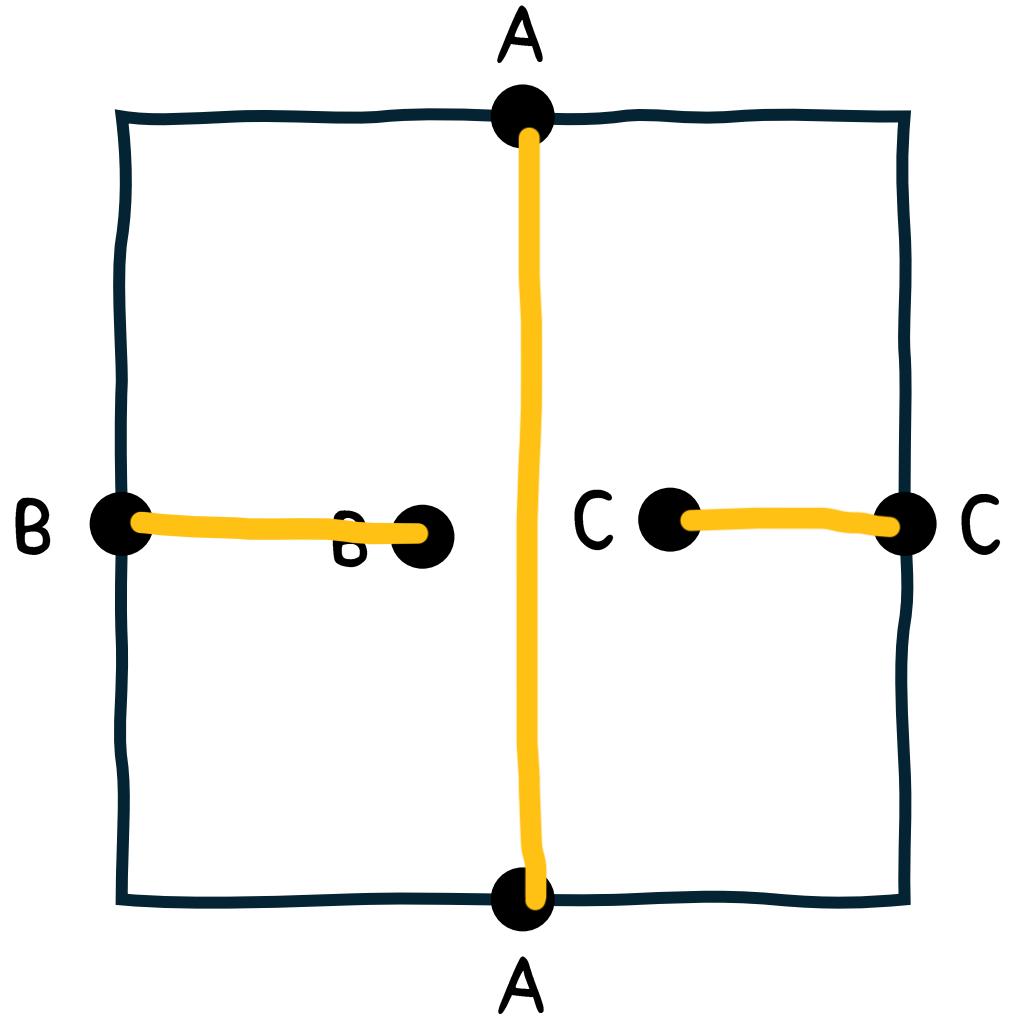
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Deform the problem.
Get the solution.



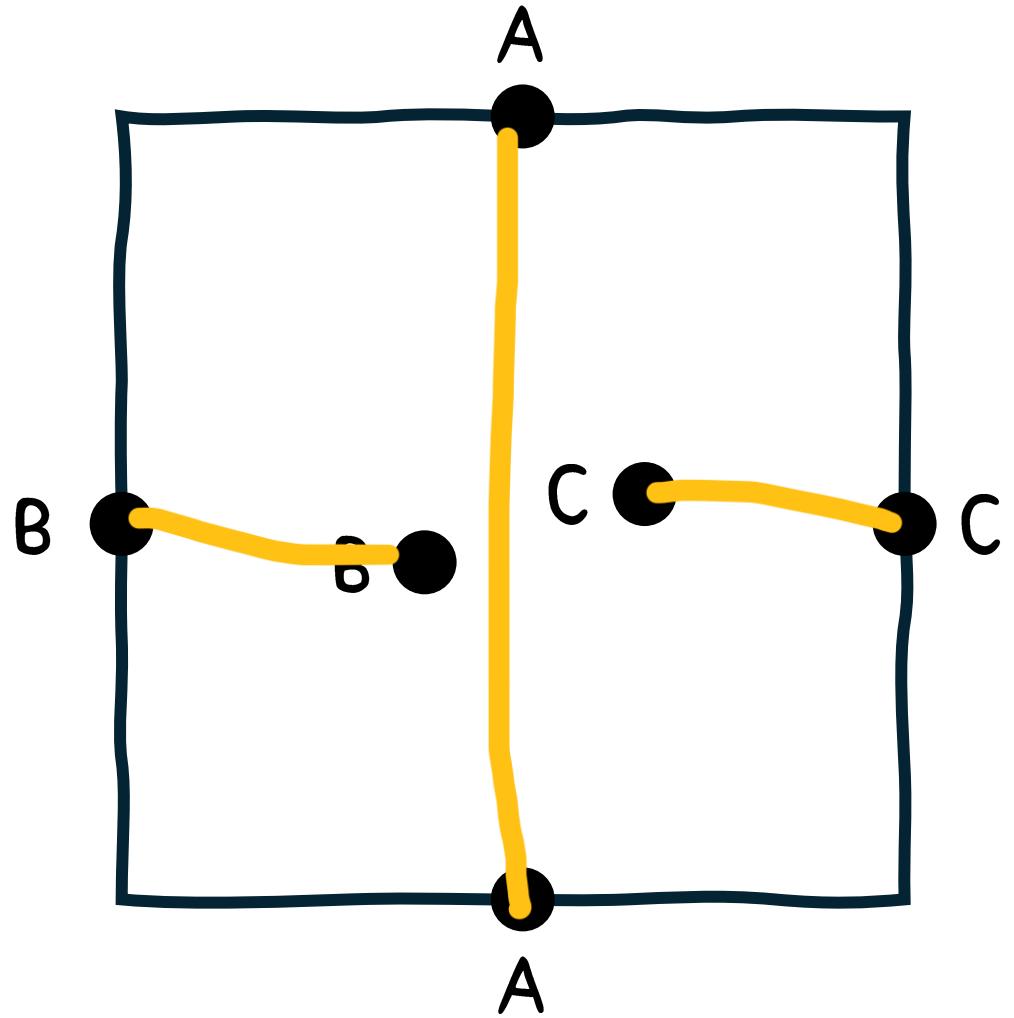
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Deform the problem.
Deform the solution.



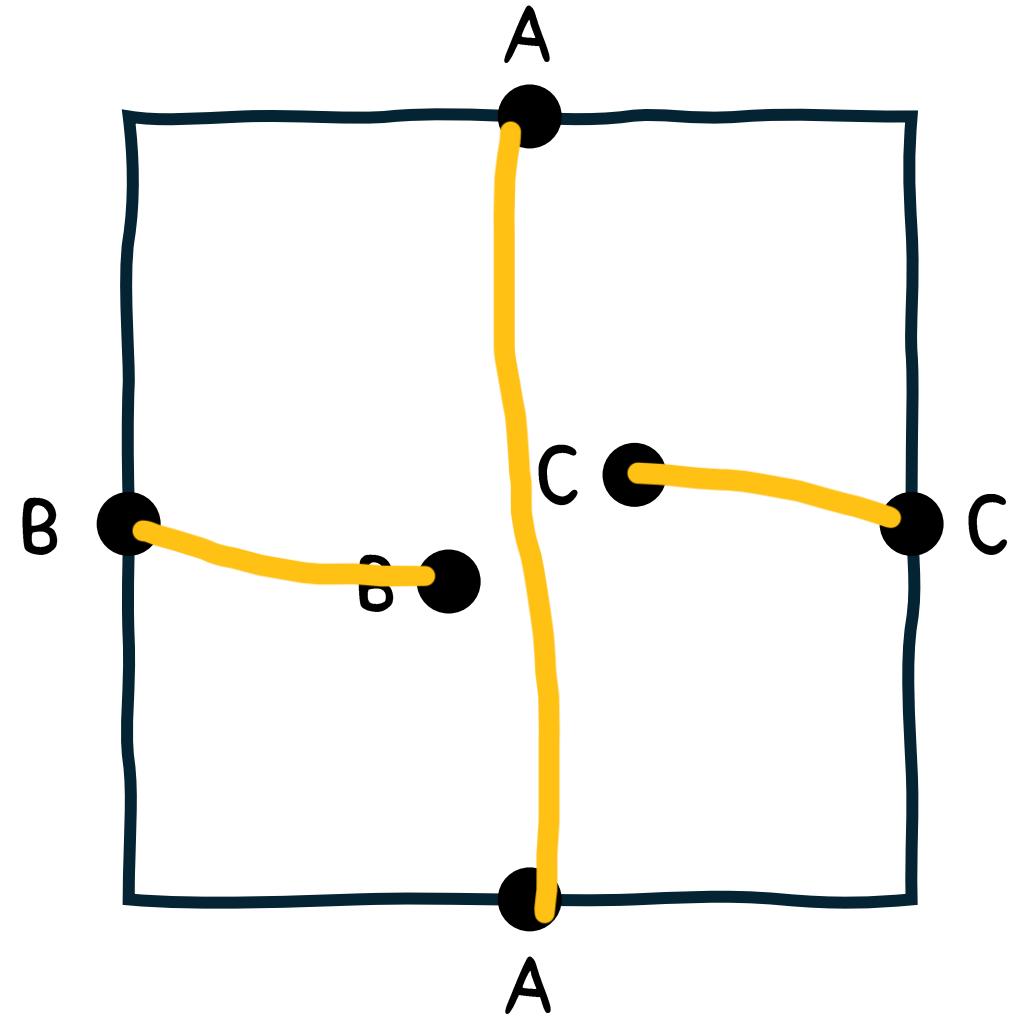
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Deform the problem.
Deform the solution.



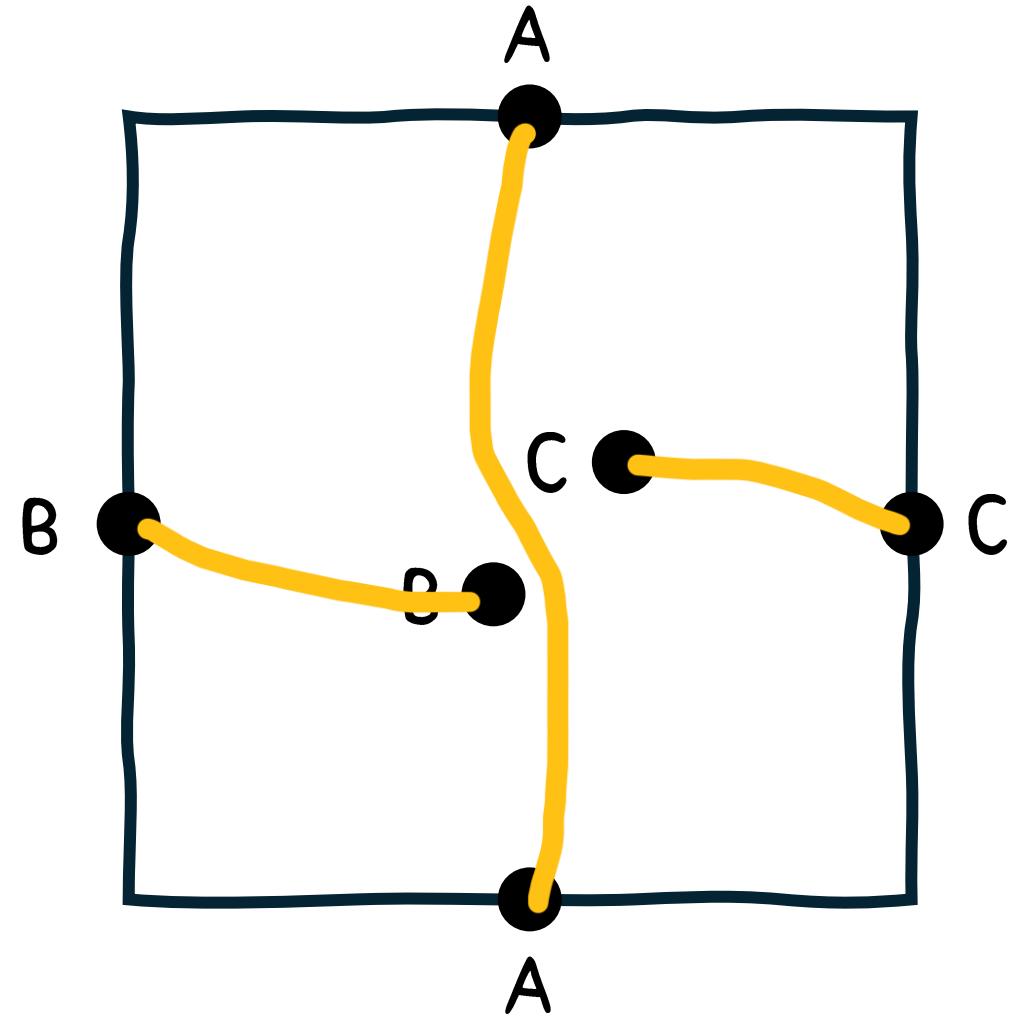
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Deform the solution.



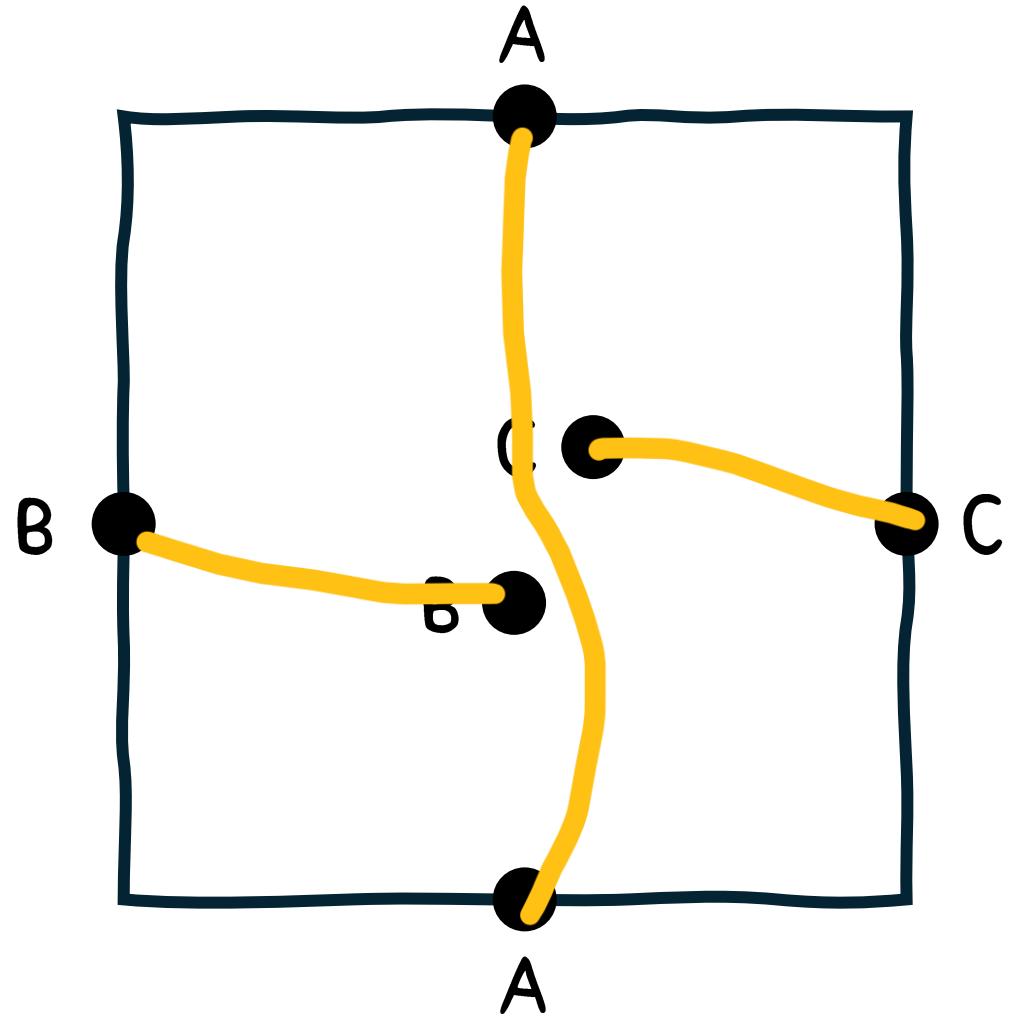
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Deform the solution.



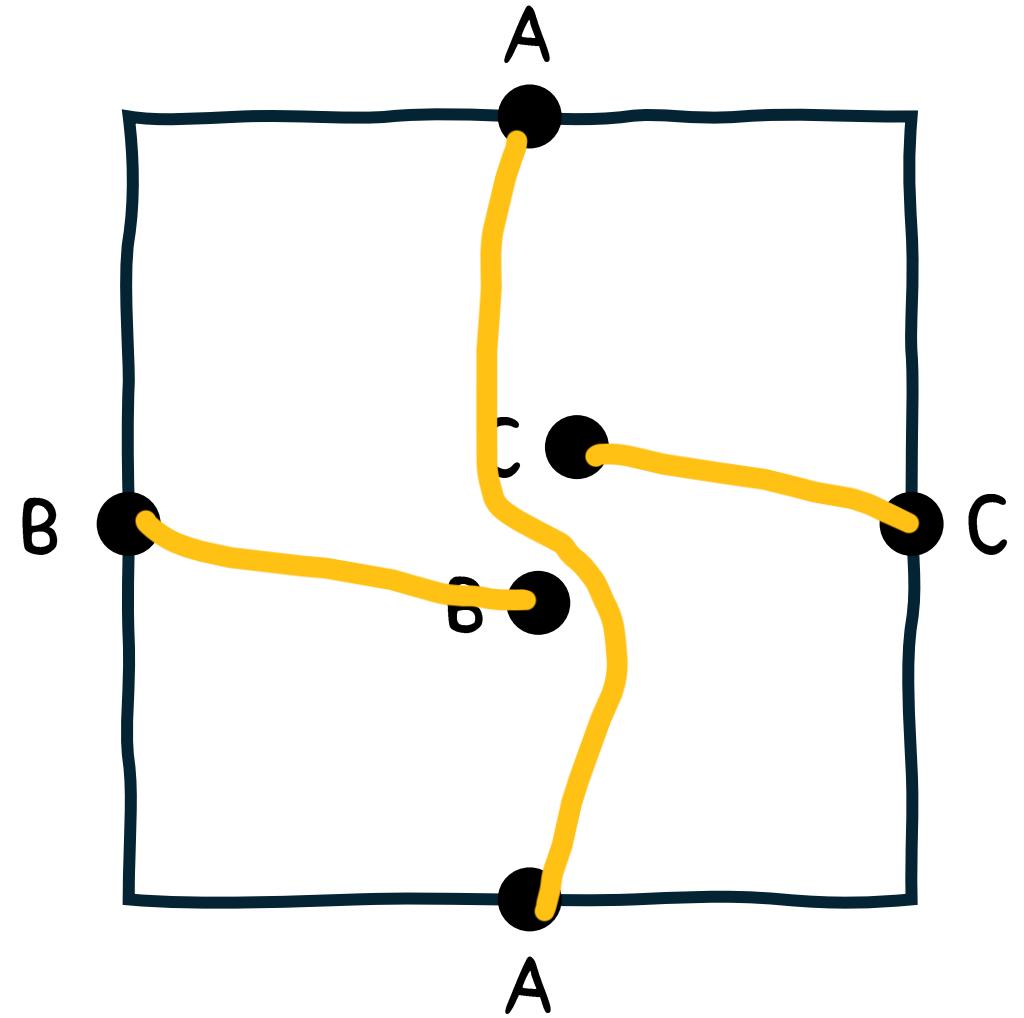
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Deform the solution.



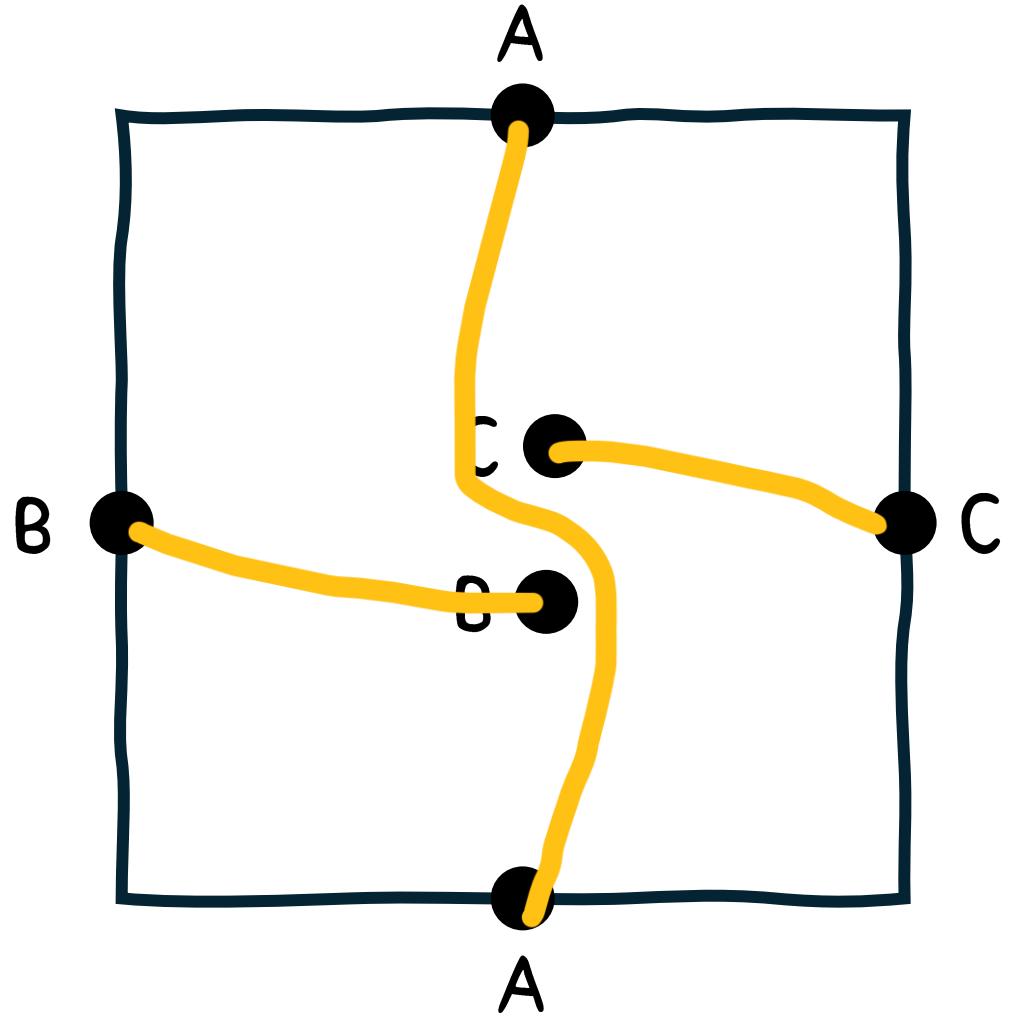
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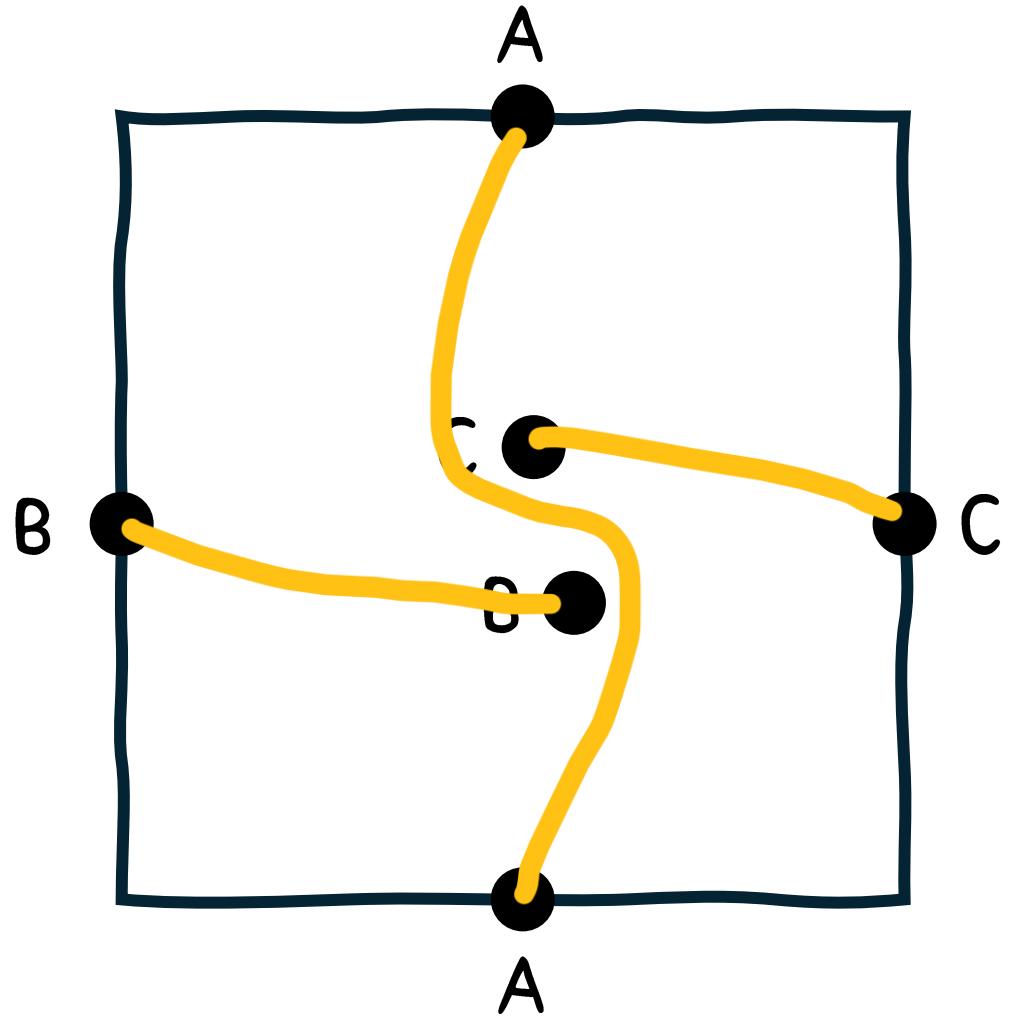
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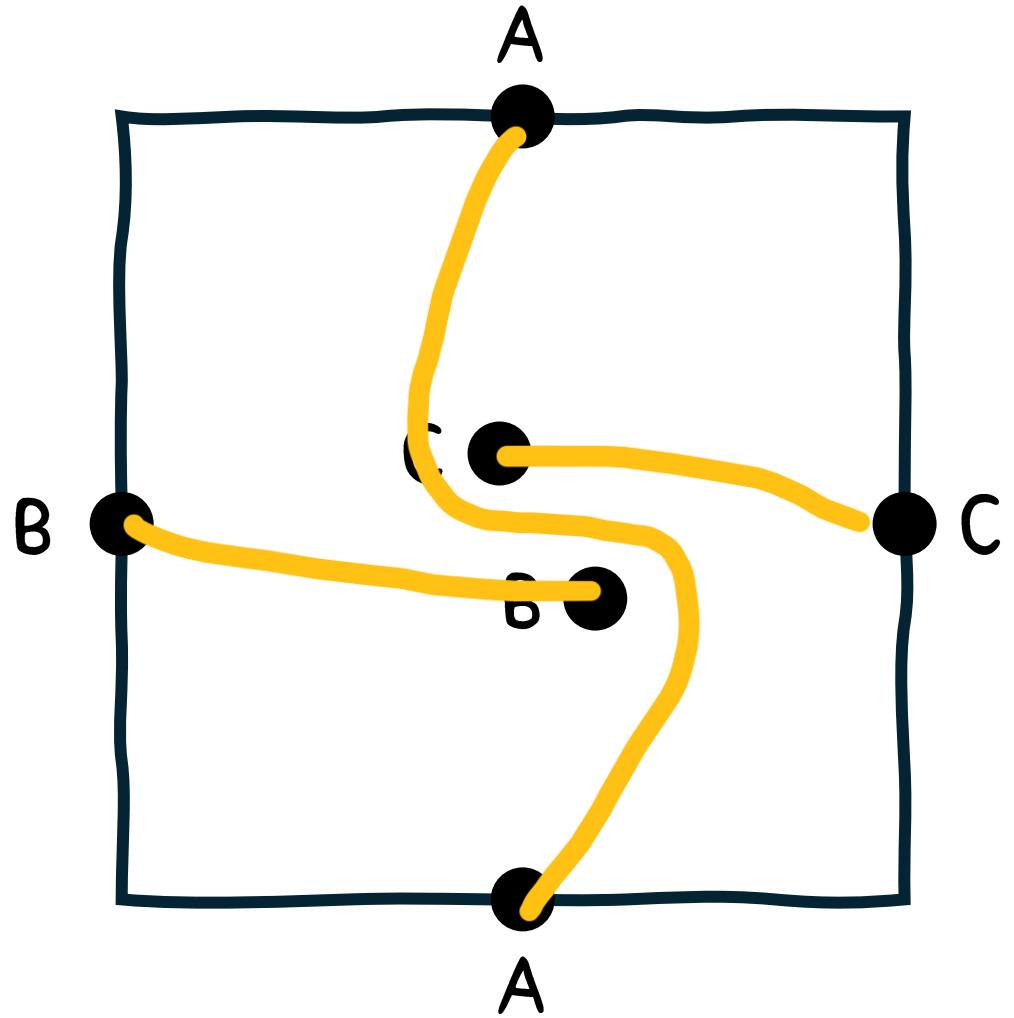
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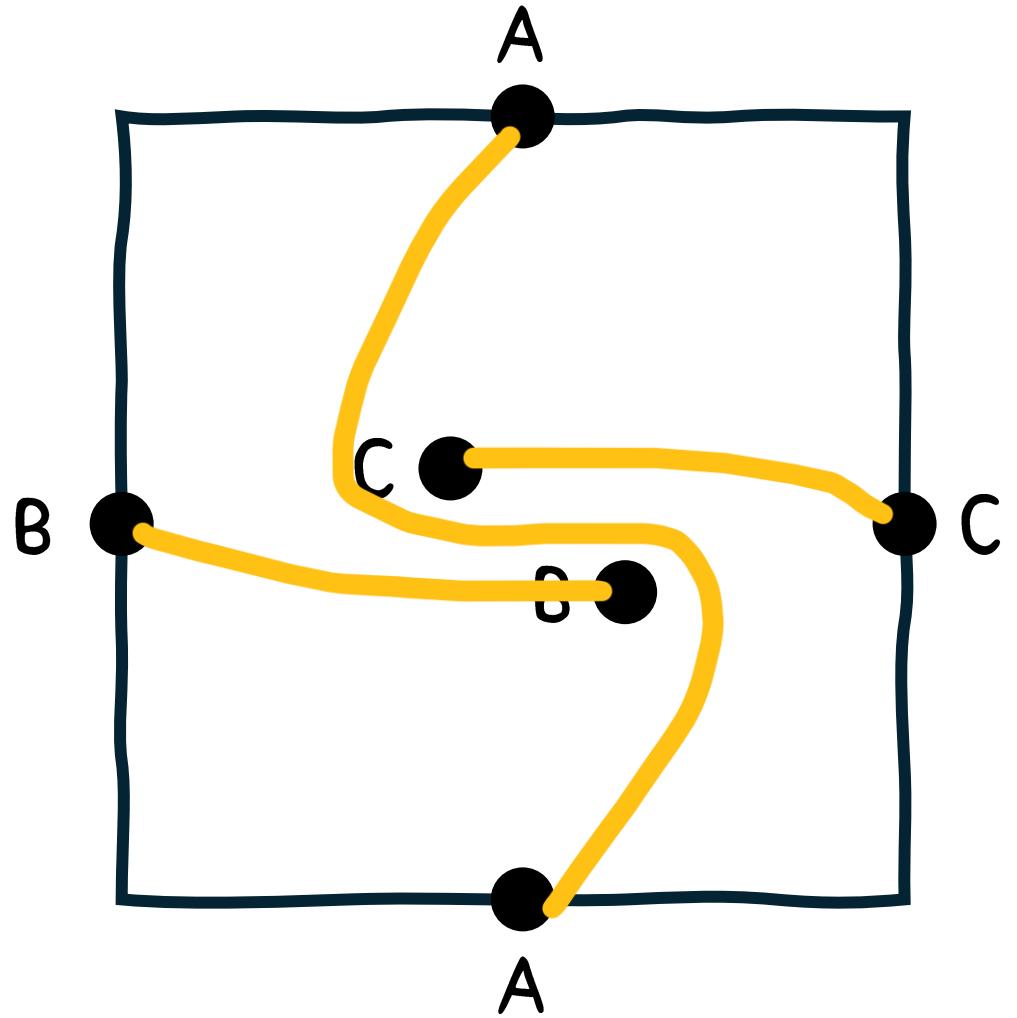
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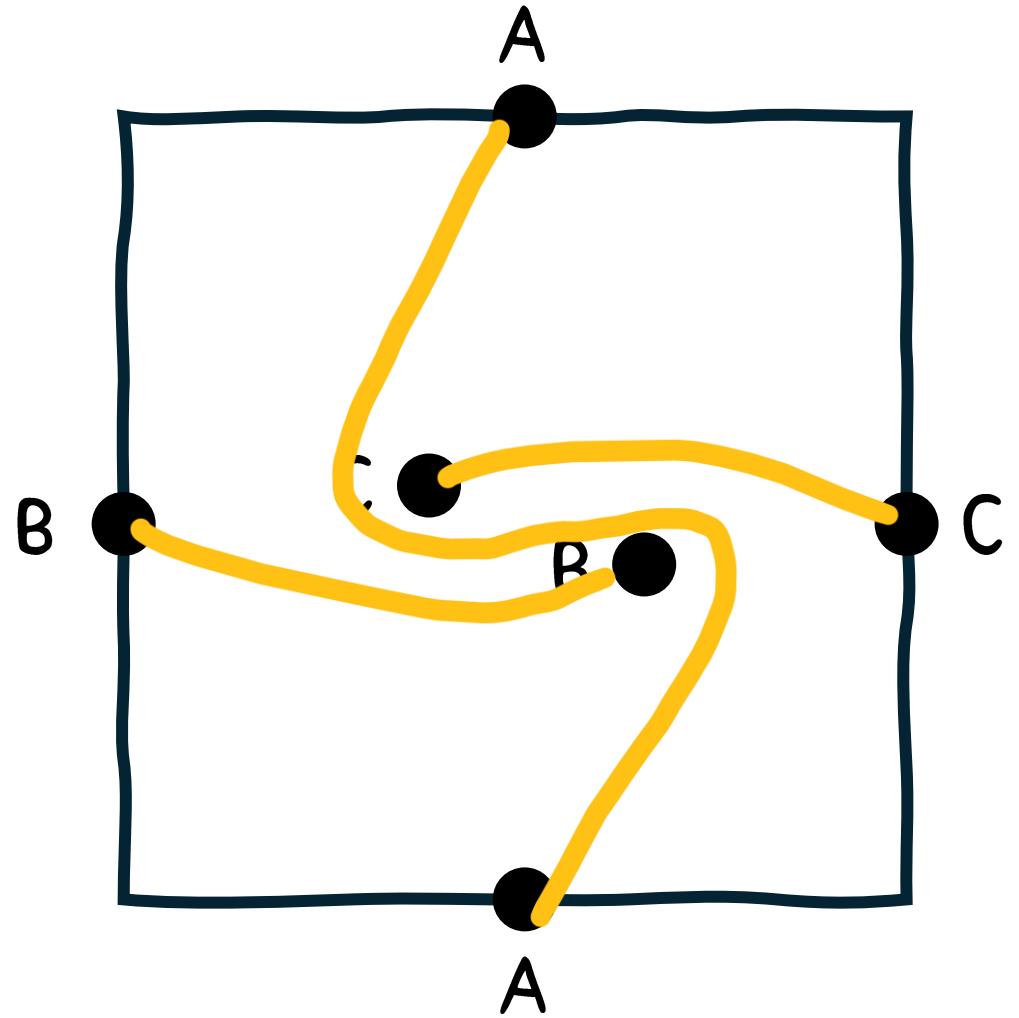
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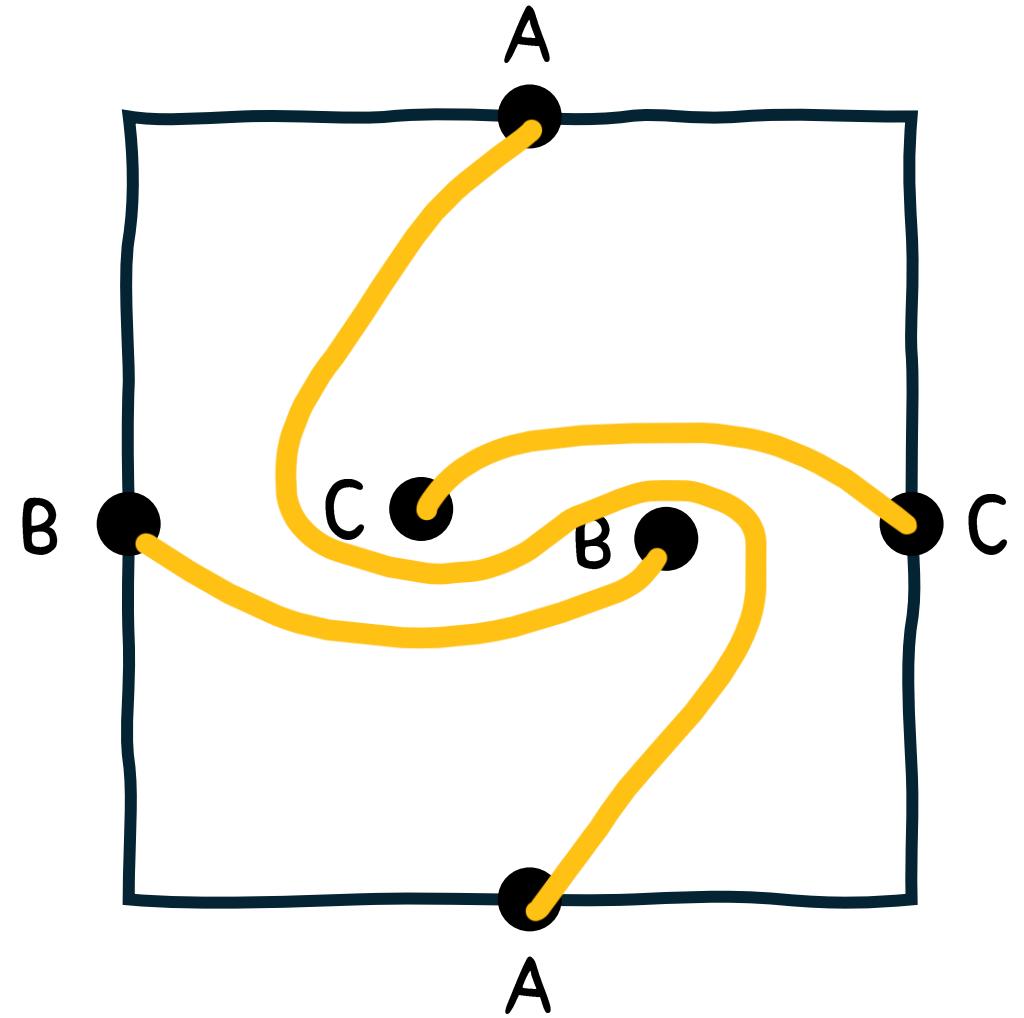
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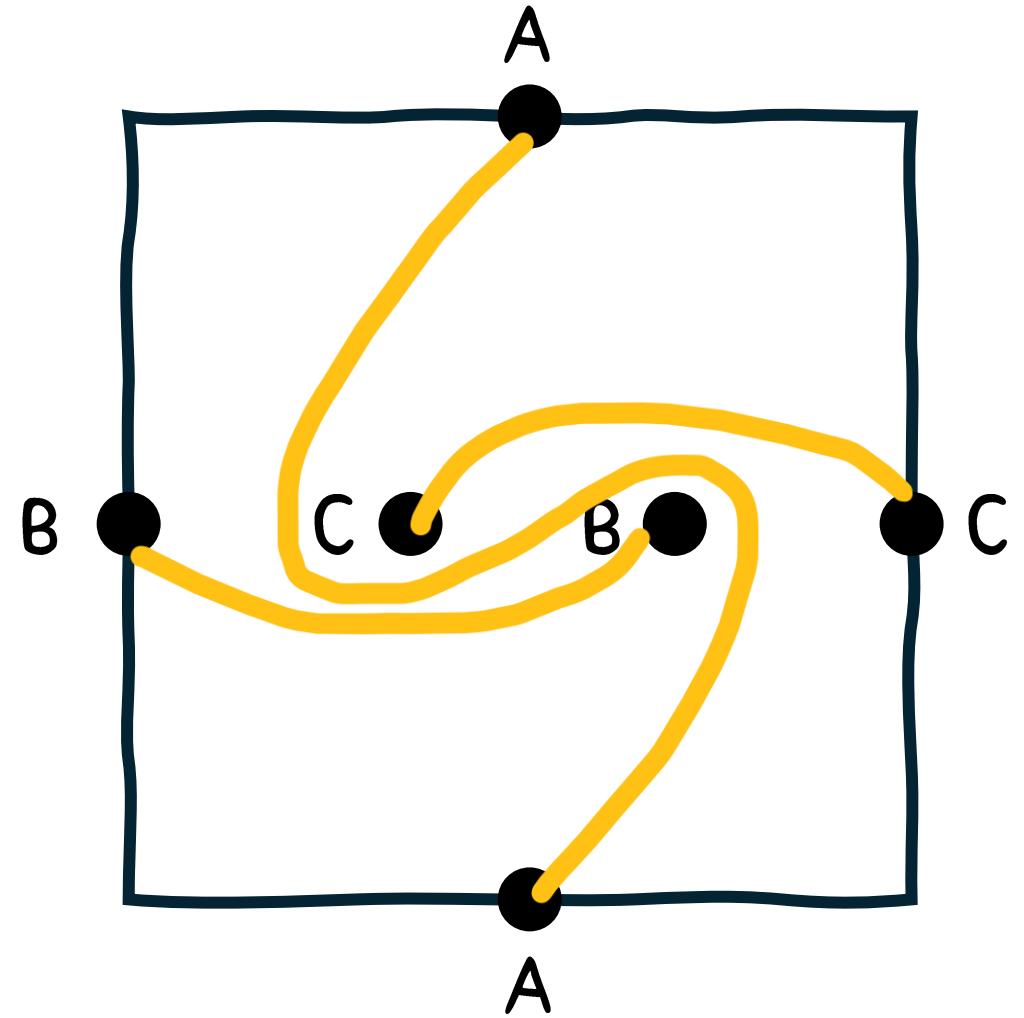
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Deform the problem.
Deform the solution.



Problems

(See separate Lesson 12 file)

Problems 1-2: use this deformation idea.

Problem 3: skip this problem: it is misstated. But if you have done part of it, turn it in for some extra credit.

Problems 4-7: use the idea that a closed curve (“loop”) separates a plane into outside and inside regions, and each time you travel from the outside to the inside (or vice versa), you must cross the curve exactly once.

