Algorithms → Graphs → Graph

## **Graph** → Friend groups

■ Hard ⑤ 5 minutes ②

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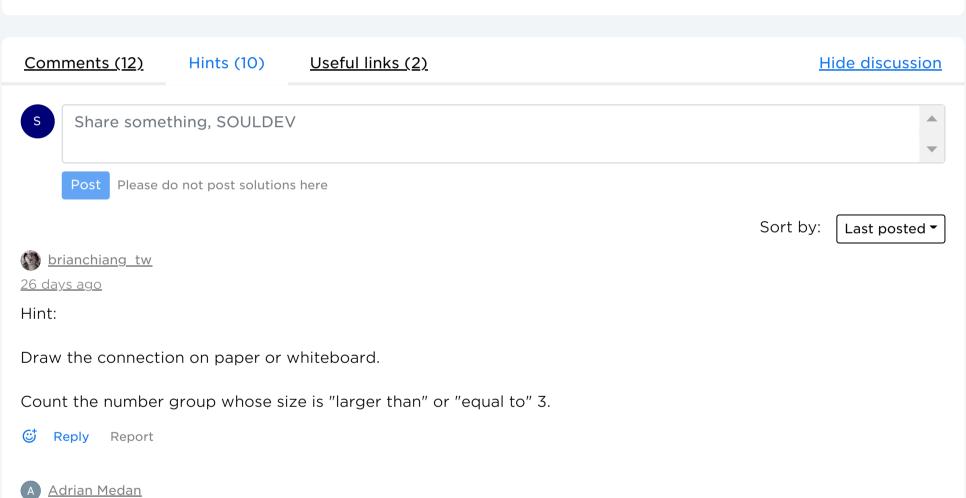
There are 8 people: Ann, John, Kate, Mike, Alice, Bob, Andy, and Sam. It is known that Bob and Alice, Alice and Sam, Bob and Andy, Bob and Sam, Kate and Ann, Ann and John, Ann and Mike, Sam and Andy, Kate and John, John and Mike, Kate and Mike, Alice and Andy are friends. Let's define a friend group as a group of at least three people where everyone is a friend of all other people in the group.

How many friend groups are there among these people? Note that a group of friends might be a subgroup of another bigger group of friends.

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28 days ago

Dennis Chen .

2 months ago

this is basically a combination problem. you do 4 chose 3 and then you have to add a larger group of 4 as a friend

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https://hyperskill.org/learn/step/6689#hint



3 months ago

Count both group of three people and more than three people as separate group.



<u>initiater</u>

3 months ago

friend group have unit digit 0











6 months ago

both: groups and their sub-groups are important















6 months ago

A friend group is any group of 3 or more people all of whom are friends with each other. So a friend group could include 3 people or 4 people.









Alex BlackSmith

7 months ago

count how many times can you arrange group of 4 people by 3



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Dan Tinsley

<u>6 months ago</u>

Or 4, since it's at least 3 people. If you don't include groups of 4, you'll get the answer wrong.



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