

# Connectivity

In the following section we will ask you questions about the connectivity in the graph. If you are unclear about any terms or concepts discussed, feel free to ask for clarification at any point.

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\* Indicates required question

1. Participant ID \*

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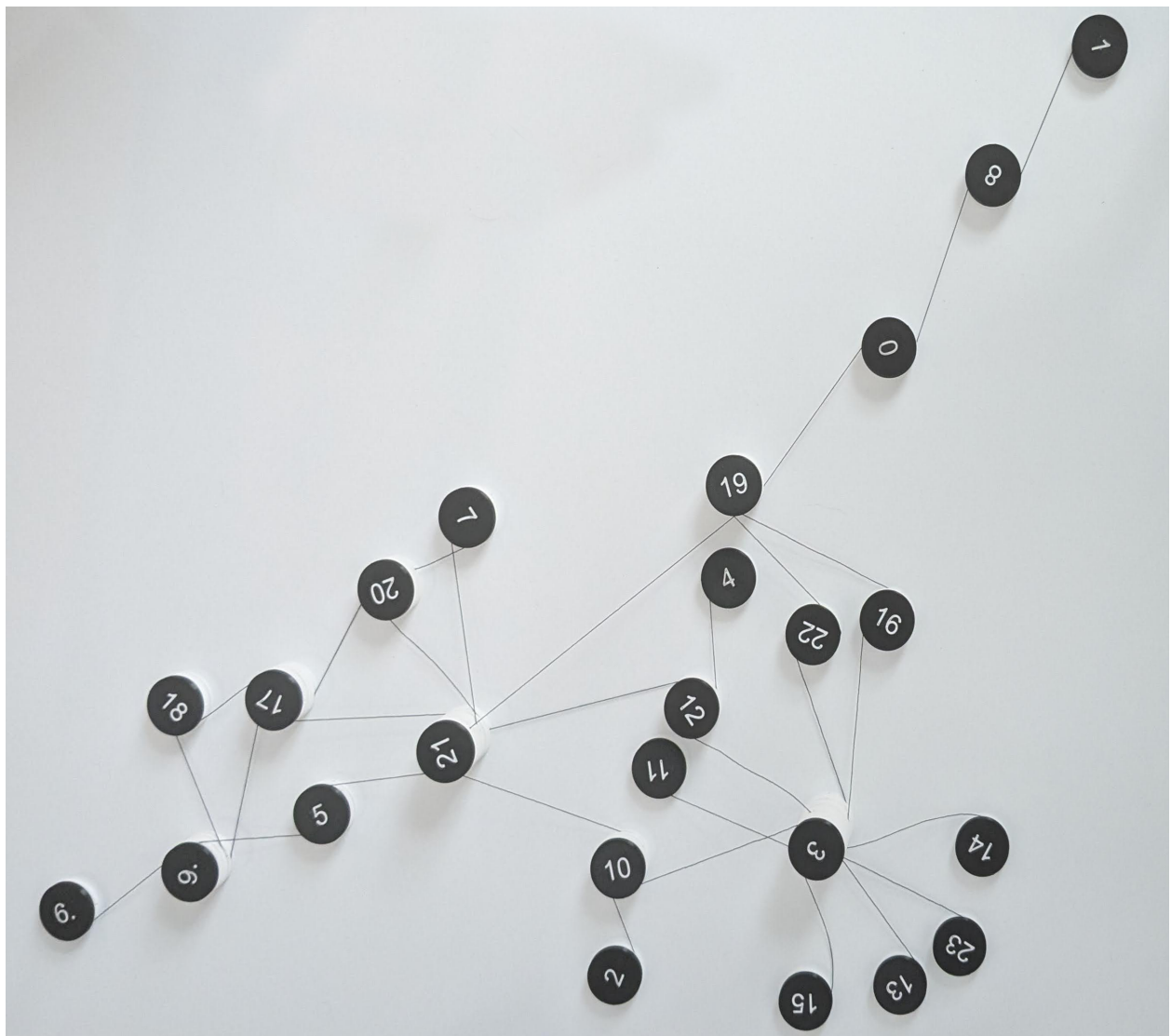
## Connectivity - Training

A **bridge** is a special kind of node. When a bridge is removed. The graph is split in two separate components.

For this task please consider **a component should be at least two nodes that are connected to each other.**

If you are ready, please ask the conductor for the training task for the concept of **bridges**.

After the training task was successful, the timer will start and the actual task can begin.



2. **Training task:** indicate bridge nodes in the training graph. \*

*Tick all that apply.*

- |                          |    |
|--------------------------|----|
| <input type="checkbox"/> | 2  |
| <input type="checkbox"/> | 3  |
| <input type="checkbox"/> | 7  |
| <input type="checkbox"/> | 8  |
| <input type="checkbox"/> | 9  |
| <input type="checkbox"/> | 19 |
| <input type="checkbox"/> | 21 |

## Connectivity - Start

The connections in our animal contact network can play an important role in both **social structure** analysis, as well as **disease prevention**.

In the case of a disease outbreak in one component of the graph, the bridge nodes could be isolated to mitigate the spread of the disease.

For the next task, you are to determine **all** bridges in the graph.

3. \*

*Tick all that apply.*

☐ Timer started.

## Connectivity - Task

4. Which of the following animals act as briges in the network?

*Tick all that apply.*

- ☐ Cairo
- ☐ Cohen
- ☐ Della
- ☐ Erik
- ☐ Hazel
- ☐ John
- ☐ Kade
- ☐ Kaia
- ☐ Kylo
- ☐ Naya
- ☐ Odin
- ☐ Otis
- ☐ Rhett
- ☐ Selah
- ☐ Siena
- ☐ Zoey

5. Time taken \*

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6. How difficult did you find this task? \*

*Mark only one oval.*

1 2 3 4 5 6 7 8 9 10

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Low ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ High

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7. Please share any thoughts about the task here. \*

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