# Fachhochschule Dortmund

University of Applied Sciences and Arts

### A minimal example

Master Thesis

Luca Brodo March 6, 2025

# 1

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Theorem

### There Is No Largest Prime Number

Theorem

There is no largest prime number.

1. Suppose p were the largest prime number.

4. But q + 1 is greater than 1, thus divisible by some prime number not in the first p numbers.

### There Is No Largest Prime Number

#### Theorem

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### There Is No Largest Prime Number

#### Theorem

There is no largest prime number.

- 1. Suppose p were the largest prime number.
- 2. Let q be the product of the first p numbers.
- 3. Then q + 1 is not divisible by any of them.
- 4. But q+1 is greater than 1, thus divisible by some prime number not in the first p numbers.

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Simple Examples

#### Simple Itemize

- » one
- » two
- » 4

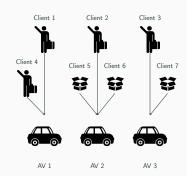
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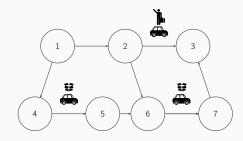
Image/Text 1

- » AV Dispatching
- » AV Routing
- » AV Rebalancing
- » Ride-Sharing and Delivery Pooling

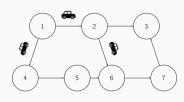
2/ Simple



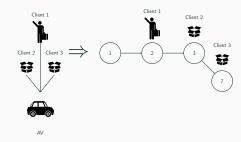
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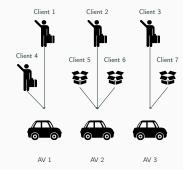
Image/Text 2

**AV** Dispatching

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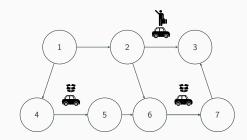
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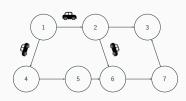
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