











Logic puzzle: CLIMATE JOURNEY

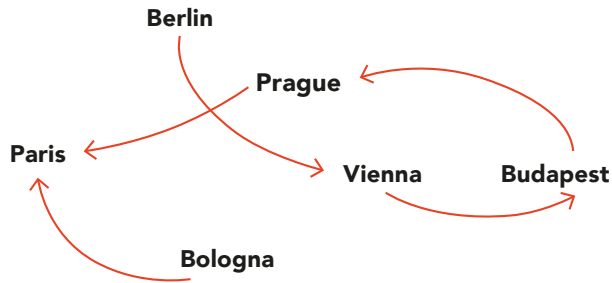
Five persons make separate journeys within Europe using different modes of transport. Match the travelers with their respective journey and mode of transport and calculate the amount of CO₂ emissions that they cause in the process!

In this puzzle we consider an average number of g CO₂ emissions per person per km, with which you can calculate the total emissions. Assume the CO₂ emissions per person per km is a whole number.

Task: Put the travelers into the correct order, starting with the person whose journey had the lowest **total number** of CO₂ emissions! The first three correct answers will be rewarded with a prize at the VCLA stand!

List of available options:

Traveler	Journey	Mode of transport
 Anna	Budapest – Prague (525 km)	airplane 
 Benedict	Prague – Paris (1,032 km)	bike 
 Cameron	Vienna – Budapest (244 km)	bus 
 Dominic	Berlin – Vienna (646 km)	car 
 Emily	Bologna – Paris (1,070 km)	train 



This is what we know about their journeys:

- **Dominic did not take the train and did not go to Budapest.**
- **The city in which the airplane lands is the starting point of another journey that is not undertaken by train. This other journey uses 147 g of CO₂*.**
- **The person traveling by bike had a total emission of 0 g of CO₂, and this person was not going from Vienna to Budapest.**
- **Benedict and the person who went by train decided to meet in Paris.**
- **The bus was in Bologna and caused 3 g of CO₂* less than Cameron’s mode of transport.**
- **Emily’s destination is the starting point of Cameron’s journey.**
- **An airplane causes more CO₂ emissions* than every other mode of transport, including the car.**
- **One of the travels caused total emissions of 148,580 g of CO₂.**
- **Anna’s journey caused 115 g of CO₂ emissions* more than the train journey.**

* per person per km

Traveler	CO ₂ emissions (total)
.....
.....
.....
.....
.....
.....

This puzzle was created by Anouk Michelle Oudshoorn, doctoral student in the program LogiCS@TUWien. The source for the CO₂ calculations will be shared on the VCLA website after the event.