

## CS211 Lab 10

### TRAVELLING FOOD DELIVERY PROBLEM



Text

It's the year 2026 and unfortunately GPT v7 has replaced all programming jobs, meaning that you're left with food delivery.

However, you can still see a way to put your Computer Science degree to good use, by using your skills to optimize your route. The extra income earned will help pay for a takeaway.

There are 100 houses in Maynooth waiting for a pizza. The distance in metres between each house and every other house is shown in `deliveries.csv`.

Find a route that gets you from Apache Pizza to every other house and then back to Apache Pizza for your next delivery load.

Keep track of the total distance travelled and print it out.

How low can you get the distance travelled?

### PEN AND PAPER EXERCISE

Show how Dijkstra's algorithm would find the shortest path between vertices A and B for this weighted graph:

