Meeting 23/11/23

14:00 – 16:00

Attended - All

Task (1) – Parse data

* Understand the output for the text file and deciding how to represent the different variables
* How to represent distance and items
* Decision: contain both in an array

Task (2) – Fitness

* Infeasible solutions:
  + Check solutions and remove
  + Or allow and penalise
  + Decision – allow and penalise. – apply infinite weight
* Fitness depends on the time taken to travel and the profit made from the bag (multi-factor optimisation problem)

Task (3) – Solutions

* Understand how we want to represent our solutions
* Solution will be represented as time taken and profit made
* Decision – Want to plot a Pareto front of the 20 best solutions based on the optimisation criteria
* Requires further research and decision into which algorithm we want to implement

To do:

Research – Charlie & Rahatal

* Research possible algorithms to use

Initialize data – Jin & Wang

* Create function to import data

Code fitness function and solution selection process (pareto front) – Yusef & Liu

* Begin writing fitness function

Next meeting: 27/11/23 @ 11:00