CRC cards

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| Vehicle | Collaborators   * Small cars * Motorbikes * Sedans * Trucks |
| Responsibilities   * Super class for truck, small car, sedan and motorbike * Gets the tank size of each vehicle * Gets how much space each vehicles takes up * Returns true when the tank of each vehicle is full * Gets and set the probability of vehicles shopping given time requirements * Gets time taken to refill * How much time spend shopping * How much they spend |

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| Small cars | Collaborators   * Sub class of vehicle |
| Responsibilities   * You can set the probability of P * Gets the probability P * Set shopping time (2-4 mins) * Set shopping money (£5-10) |

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| Motorbike | Collaborators   * Sub class of vehicle |
| Responsibilities   * You can set the probability of P * Gets the probability P * Sets probability of shopping to 0% |

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| Sedan | Collaborators   * Sub class of vehicle |
| Responsibilities   * You can set the probability of Q * Gets the probability Q * Set shopping time ( 2-5 mins) * Shopping money (8-16) |

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| Trucks | Collaborators   * Sub class of vehicle |
| Responsibilities   * If refill time is greater than 8, unhappy to true * Have a probability of t * Gets the value of t * Reduces or increases t * Shopping time (4-6 mins) * Shopping money (15-20) |

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| Tills | Collaborators   * Sub class of simulator |
| Responsibilities   * Get time taken to pay – random generator (2-3 mins) |

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| Pump | Collaborators   * Sub class of simulator |
| Responsibilities   * Generates a random variable between 0 and 1 to decide which vehicle is coming * Gets and sets the price of petrol |

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| Simulator | Collaborators   * Vehicle |
| Responsibilities   * Generates a random variable between 0 and 1 * Searches the smallest queue of pumps and tills * Gets and sets the price of petrol * Checks and returns if the queue for the pumps and tills are full * Calc income and loss * Clock to run ticks * Get ticks |

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| Simulator View | Collaborators   * Vehicle |
| Responsibilities |

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| Queue | Collaborators   * Tills * Pumps |
| Responsibilities   * Set length of queue * Check if space * Remove first item * Get current length of queue |

Diagram

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