COMP2240 Assignment 2

Testing

I tested each question by being as verbose as possible with my output (depending on the requirements of the particular question). For instance questions 1-3 did not require intense output as one thread was only ever doing something at a time.

Question 1 was as simple as just making sure that it ran for a long time without deadlock to be satisfied that it was correct.

Question 2 was a case of watching the output for the same order of farmers repeated forever.

Question 3 was the same as question 2, even though they were returning as well.

Question 4 was more challenging and I found I had to be very verbose to get an idea about which threads were going where and if they were getting stuck somewhere or not. Having developed in C I had differing results on Windows and Linux. Windows saw my Q4 run without hitches but on Linux the farmers would get "lost" and one farmer would loop on the north-south bridge forever with the other farmers doing nothing.