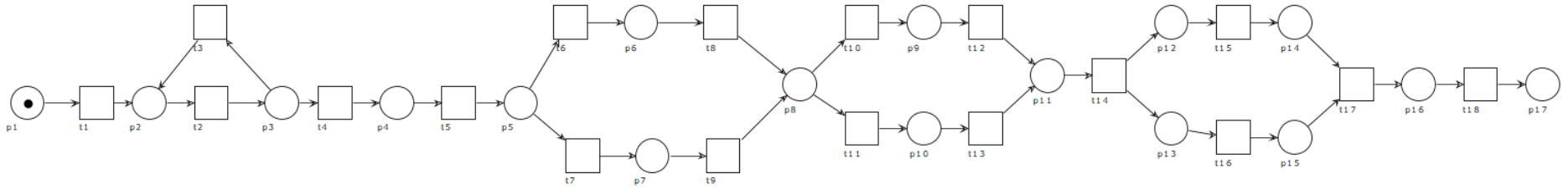
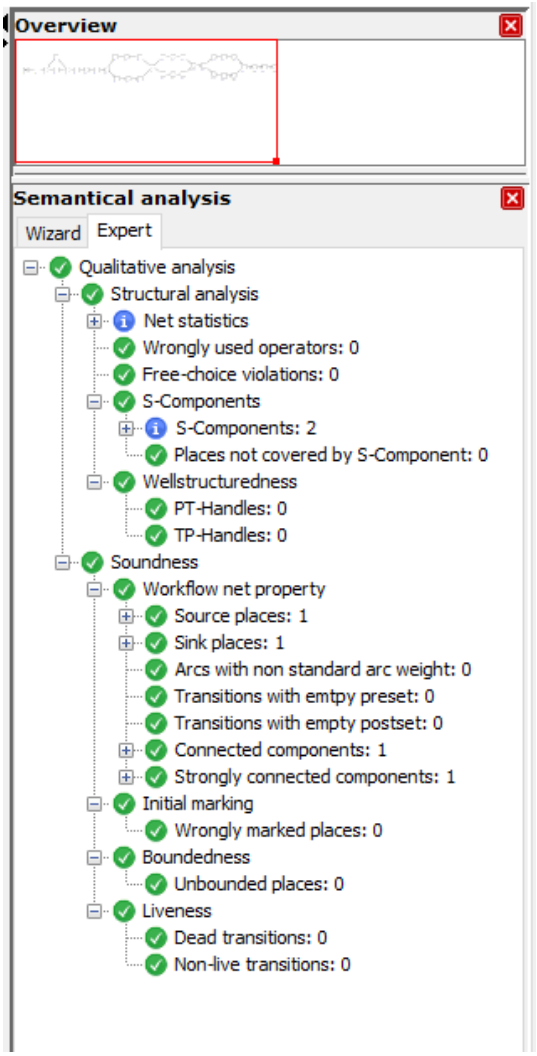
Assignment 2

(c) Analysis via Tool Support – Part 1





Interpret your results and discuss whether your model is

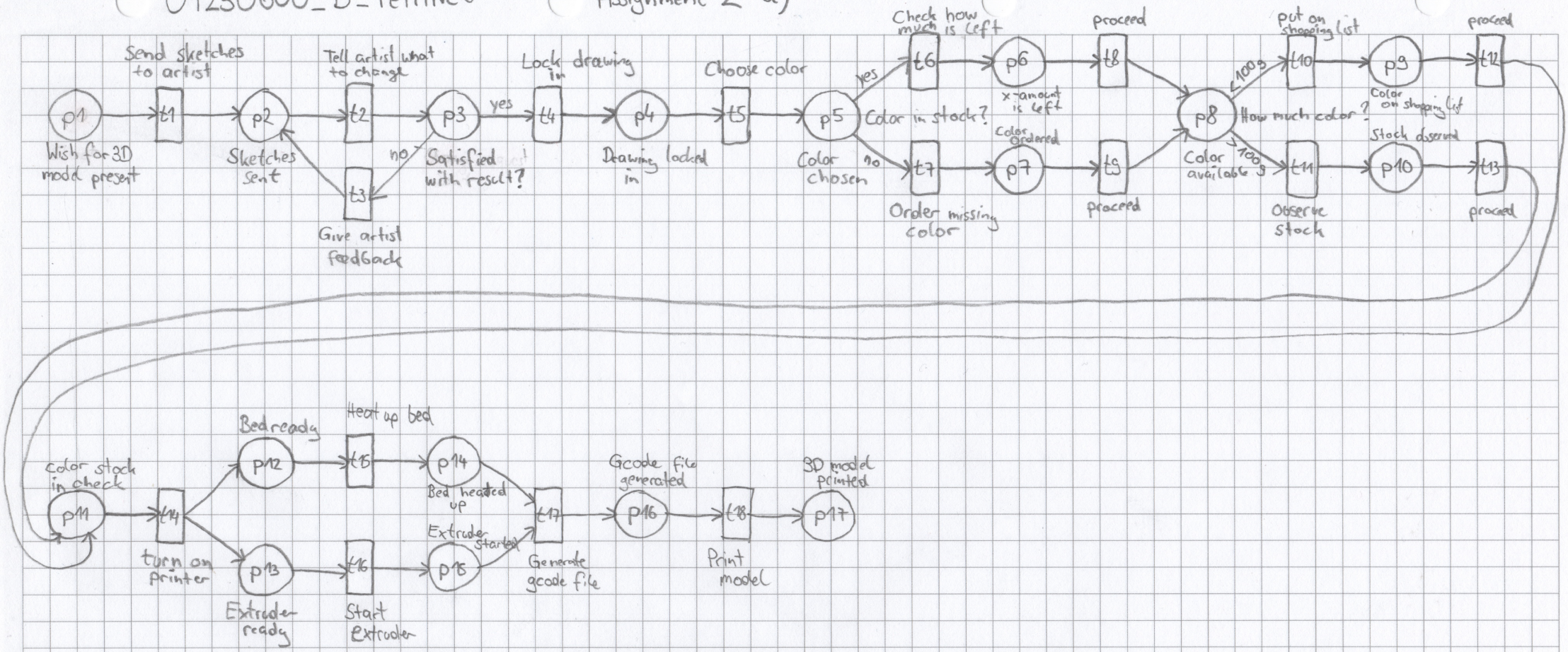
*** sound**
Here the tool analysis and my manual analysis come to the same conclusion. The Petri net has a starting point (the source) and an end point (the sink). Every transition can be performed along the way from initial node and end node.

*** bounded**
Here both analyses also come to the same conclusion as there are no unbounded places.

*** safe**
Here both analyses also come to the same conclusion as there are no unbounded places.

*** and live**
Here my analysis differ from the tool analysis as WoPeD suggests that the Petri net is live. In my understanding it cannot be life because it reaches in M16 (see assignment 2b) a state in which no transition is enabled, and thus the model cannot perform another instance.

01250600_B_PetriNet Assignment 2 a)



Q: What net type and why?

I chose to model my model B from assignment 1 as a E/C net. The reason for doing so derives from the fact that petri nets of the E/C type are natively (if modeled correct) sound. As it is mandatory to have a petri net that is structurally sound in assignment 2 d), I thought it would safe me time and efford if I already consider this property at the very beginning. There was no need for weighed arcs or places that may hold more then one token.