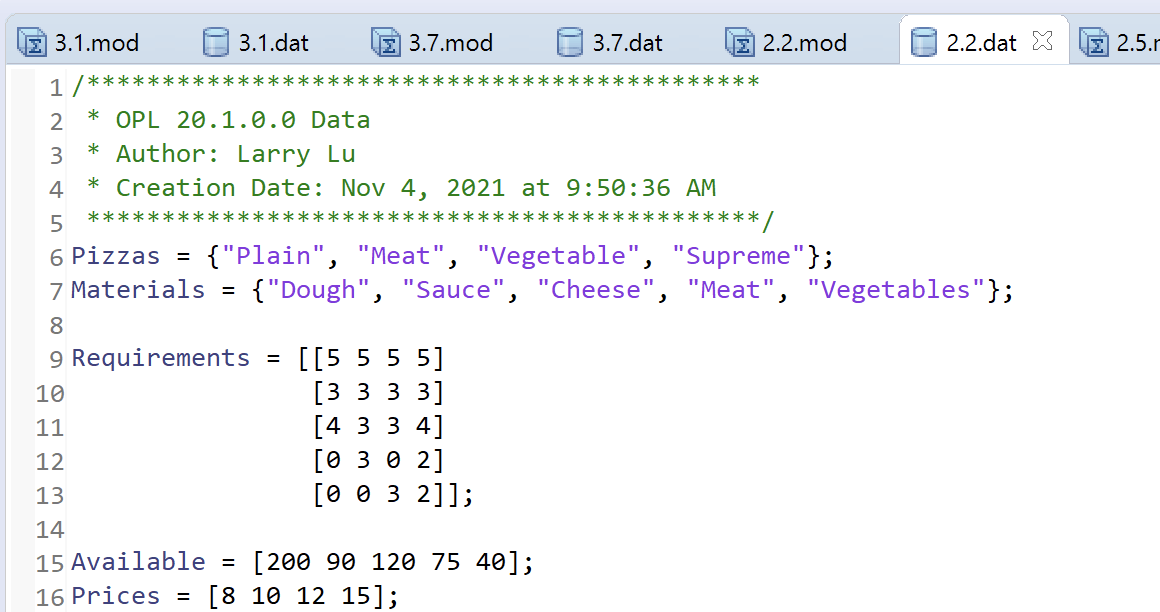
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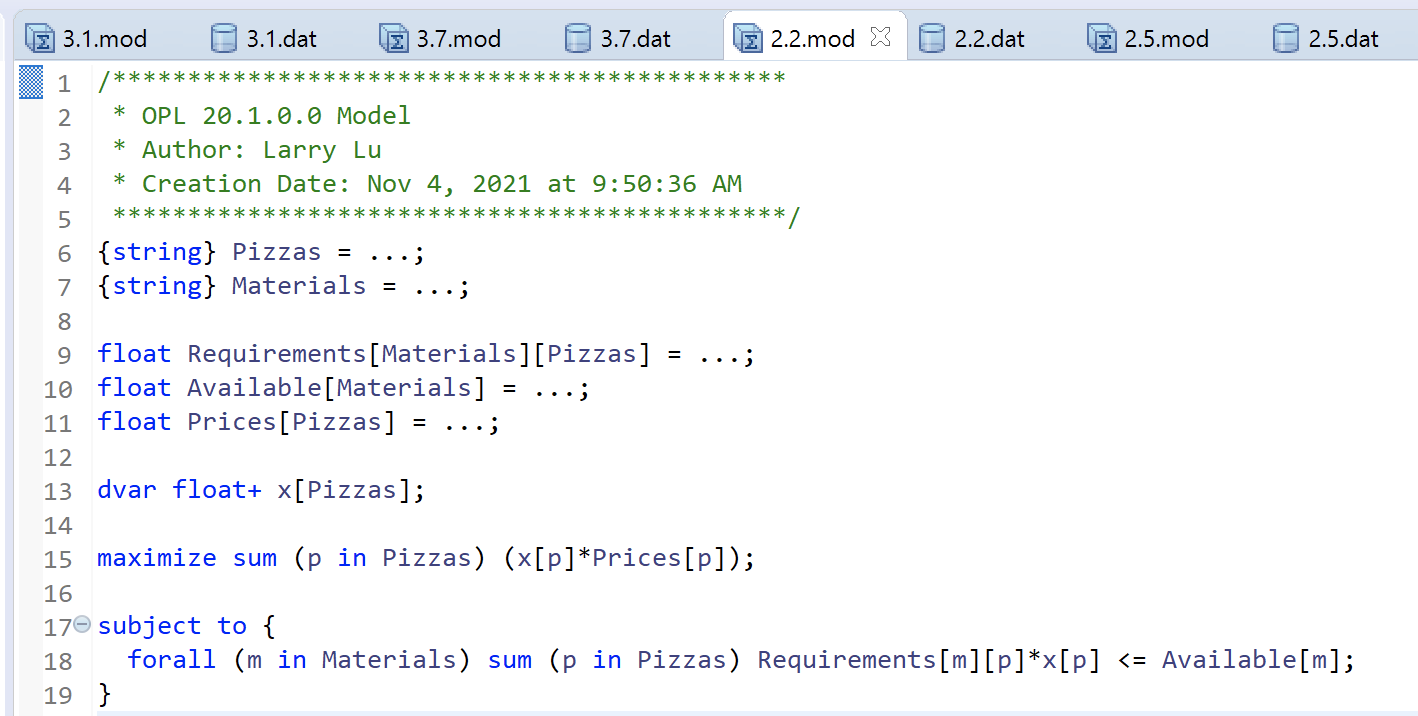
Since all the 3 questions are from previous IAs, and we are not required to show the formulation, network, etc., here I just put results from CPLEX, and discuss the differences with EXCEL solutions, if any.

**Question 2.2:**

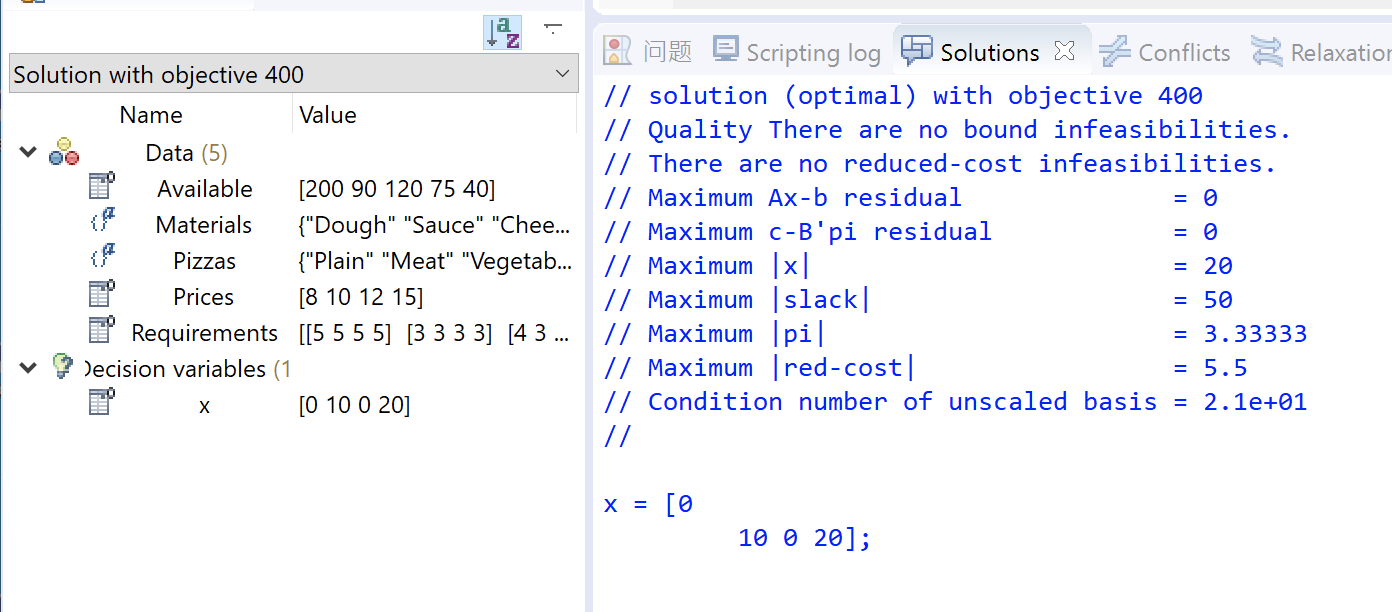
Data file:

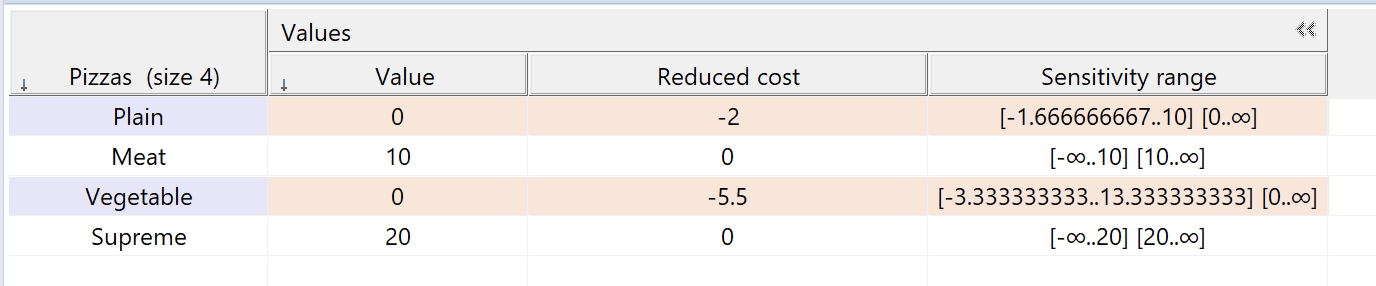


Model:



Result:

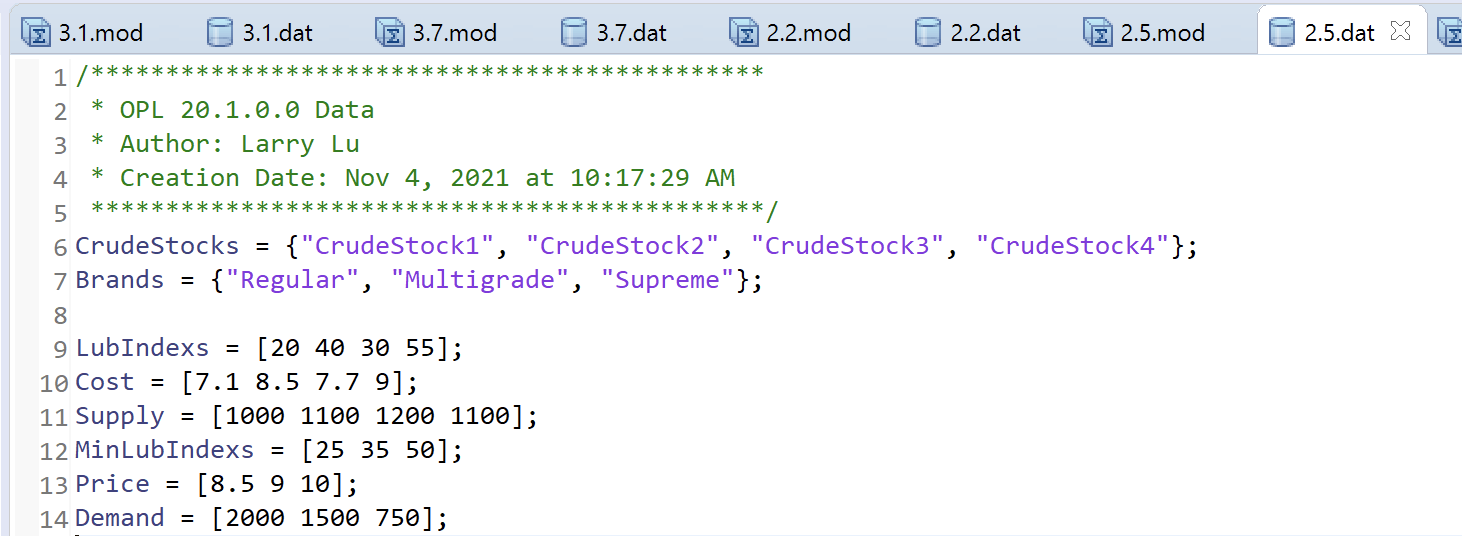




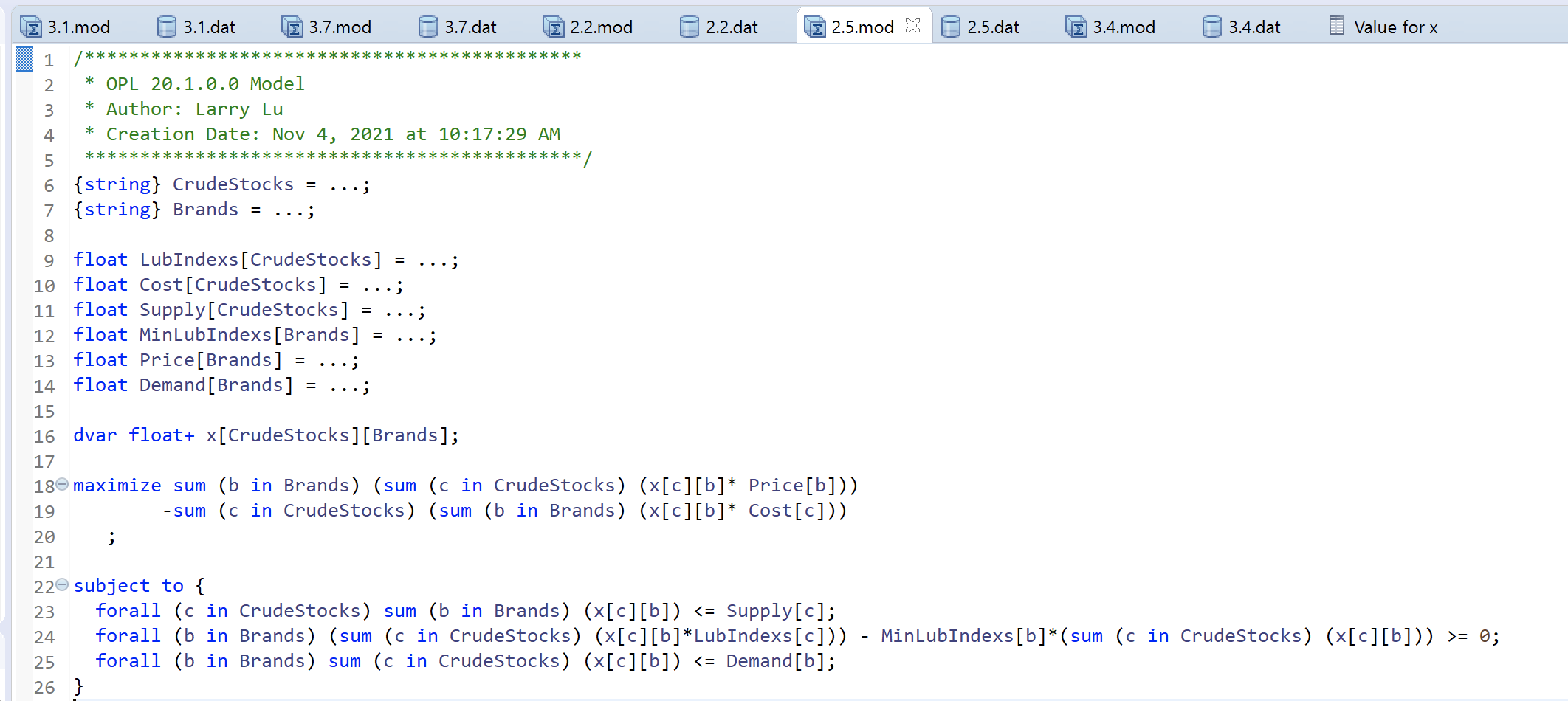
**Optimal solution and situation are same as EXCEL result.**

**Question 2.5:**

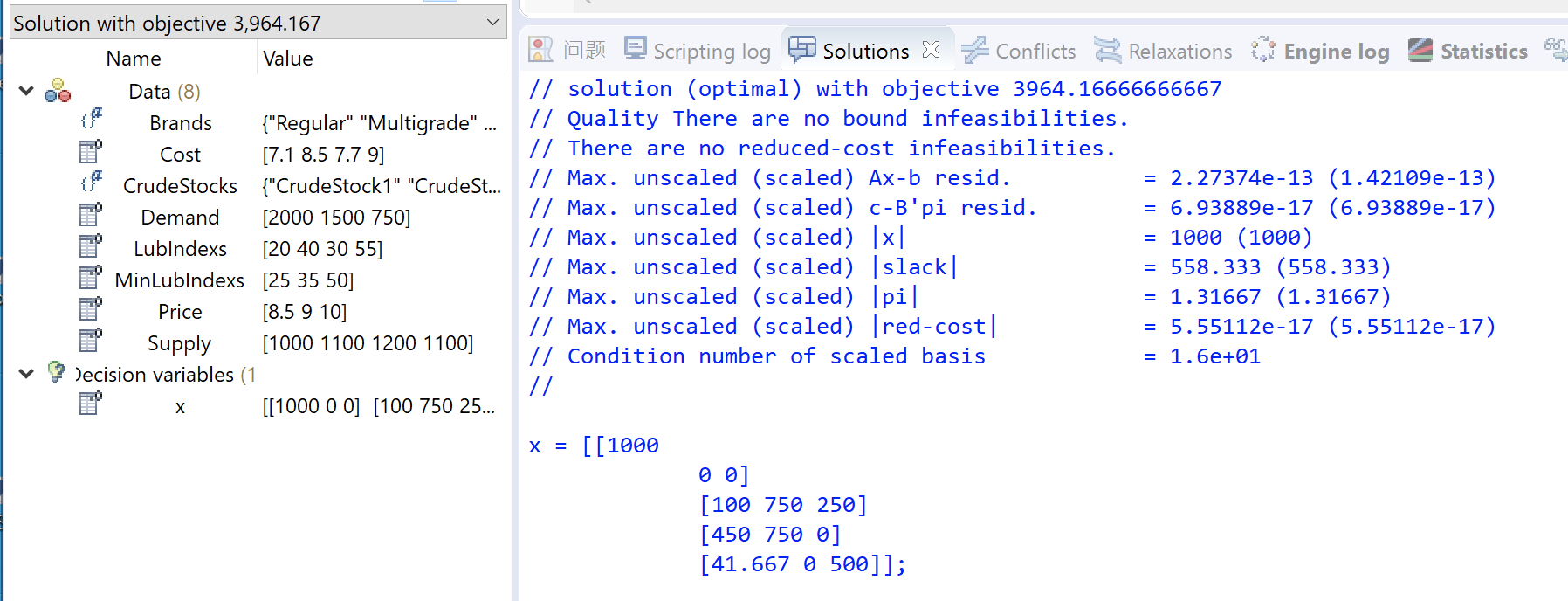
Data file:

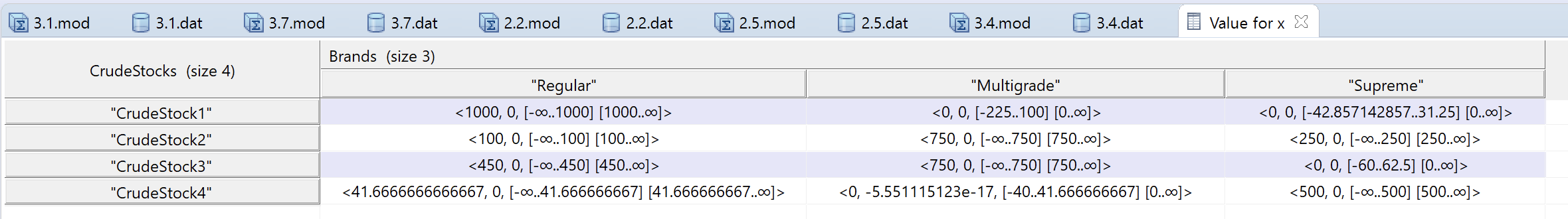


Model:



Result:

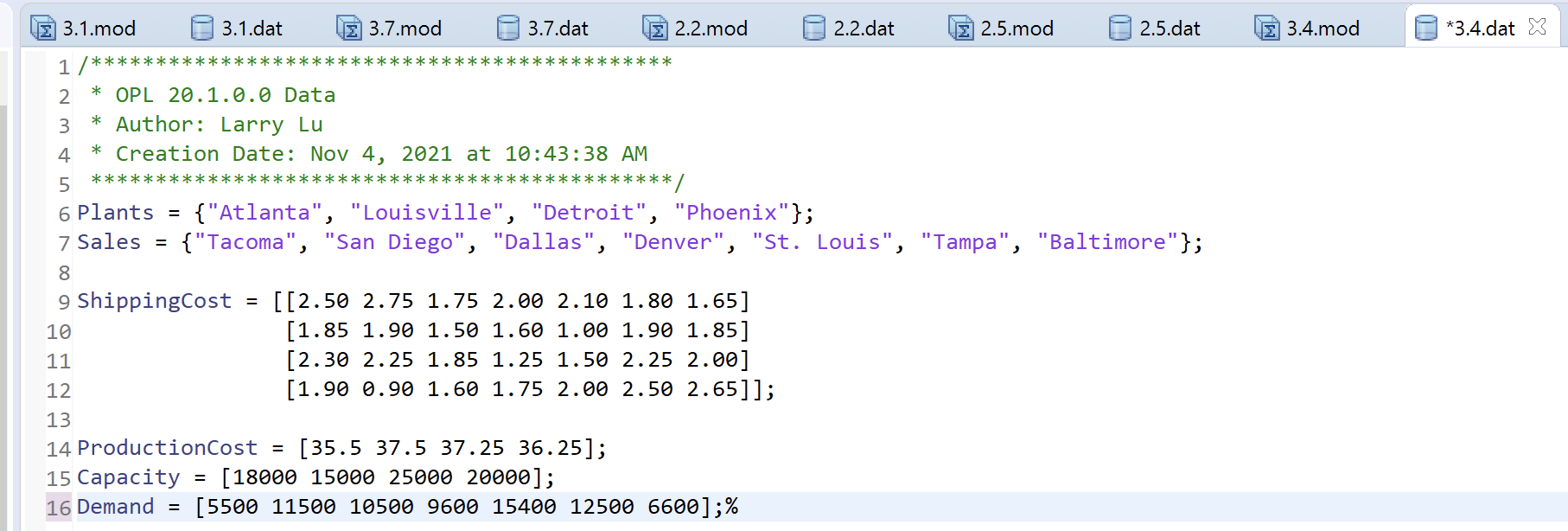




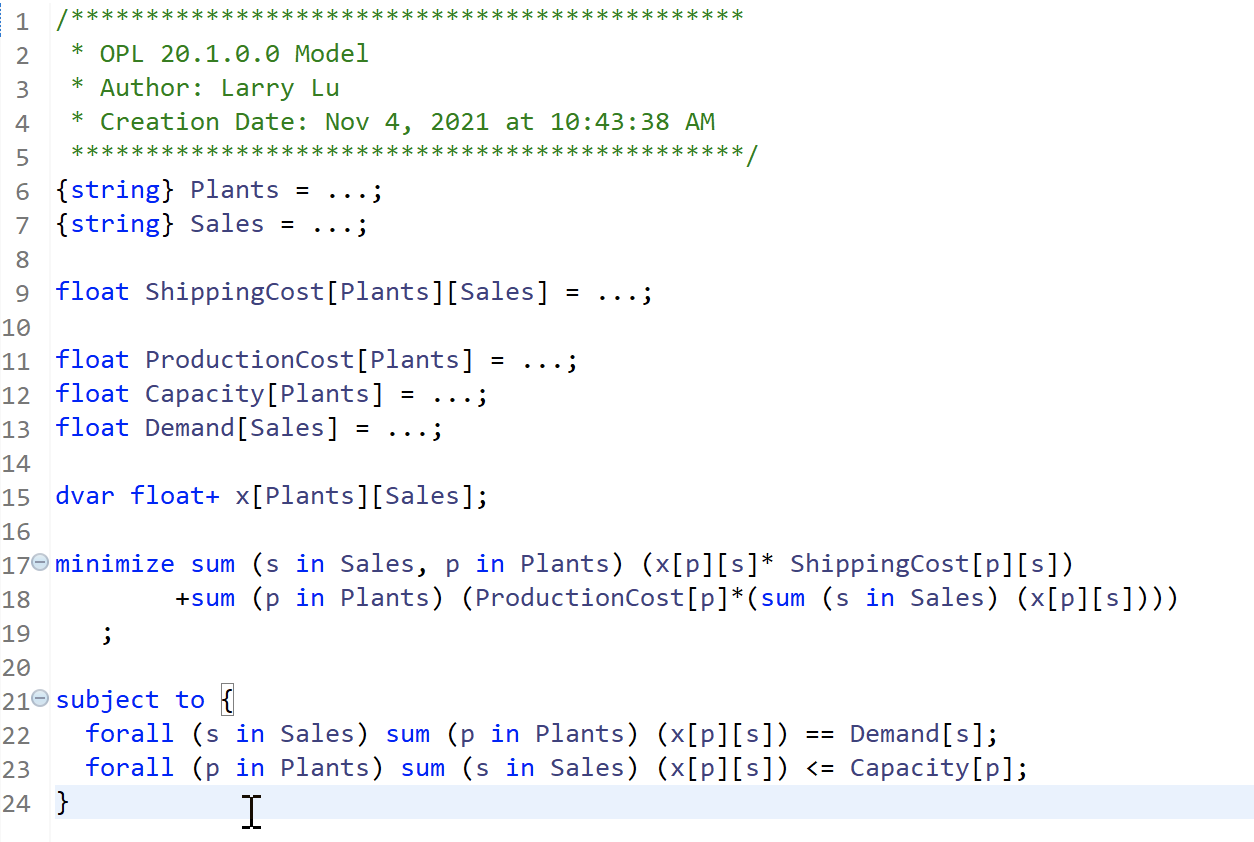
**Optimal solution is same but optimal situation is different. It’s because we can use combinations of crude stocks and get exactly the same mixture: i.e., c\_1+c\_3 = 2\*c\_2**

**Question 3.4:**

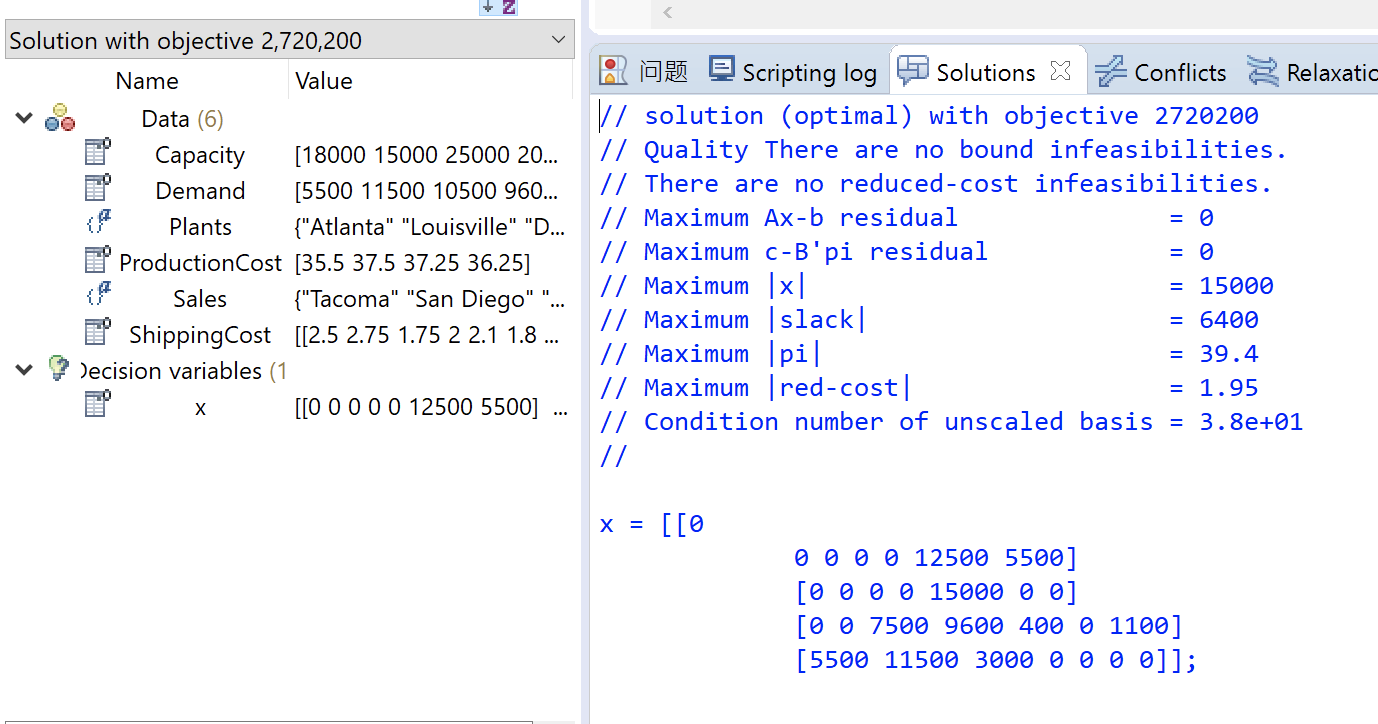
Data file:

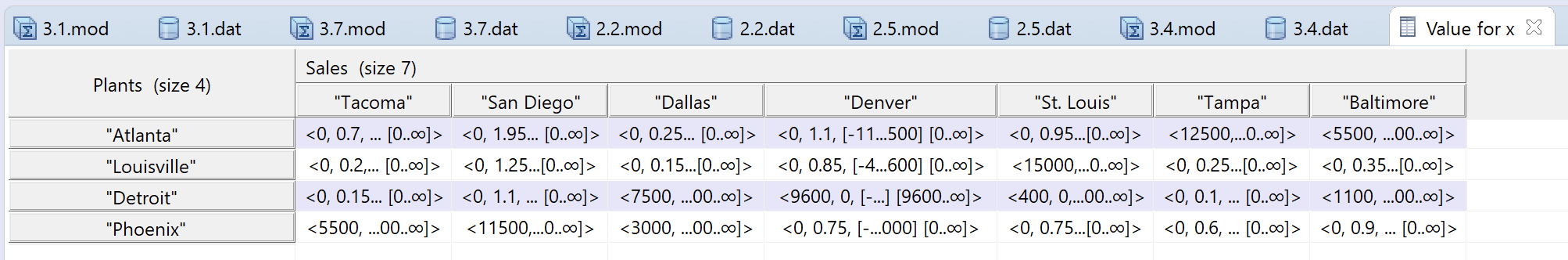


Model:



Result:





**Optimal solution and situation are same as EXCEL result.**