You should encounter some difficulty with the Kantorovich formulation for the larger data set. In this part, we want to solve the Gilmore-Gomory formulation (exactly the same formulation we discussed in class) using column generation. The master problem is given below.

$$\min \quad \sum_{j=1}^N x_j$$
 s.t.
$$\sum_{j=1}^N a_{ij}x_j = b_i, \qquad \forall i=1,\dots,m \quad \text{(Demand Constraints)}$$

$$x_j \geq 0, \qquad \forall j=1,\dots,N.$$