**Airplane shipment consolidation**

Third-party logistics providers(3PLs) are companies that manage transportation for clients. They consolidated shipments by receiving delivery requests from a several customers to fill up a plane. For example, an express company such as UPS and FedEx take the shipments from several companies and deliver them to the destinations. However, each customer provides different profits and required volumes are different as well. Lastly, the total capacity of the plane is set as 5000 cubic feet so this constrain should be met.

