

Design:

I have created two packages, one for Main Class and other for Order Class and Stuff like Processing etc.

Main Package: In this Package, Main Class is created from which main function is called.

Order Package:

Order Class : For reading the orders as an object, created a class ORDER. It has attributes like orderID, type, product etc.

Order Processing Class: It contains the my main logics , like Process method, pending method and matched orders method.

Algorithm :

My Logic mainly uses two Array linked list one for storing the pending orders and other for storing the matched orders. User adds new orders in Pending orders it then goes through the Process method after that if there is match then those orders are removed from pending orders and included in the matched orders. Then these linked list are shown through the respective methods.