```
class orderbook():
  def __init__(self):
     self.buy = []
     self.sell = []
  def add(self, order):
     if order['side'] == 'B':
        self.buy.append(order)
     if order['side'] == 'S':
        self.sell.append(order)
     else:
        print('ERROR')
  def cancel(self, order):
     for i in self.buy:
        if order['orderid'] == i['orderid'] and order['exchange'] == i['exchange']:
          del order[i]
     for i in self.sell:
        if order['orderid'] == i['orderid'] and order['exchange'] == i['exchange']:
          del order[i]
  def modify(self, order):
     for i in self.buy:
        if order['orderid'] == i['orderid'] and order['exchange'] == i['exchange'] and order['price'] !=
i['price'] or order['quantity'] != i['quantity']:
          order['price'] = i['price']
          order['quantity'] = i['quantity']
     for i in self.sell:
        if order['orderid'] == i['orderid'] and order['exchange'] == i['exchange'] and order['price'] !=
i['price'] or order['quantity'] != i['quantity']:
          order['price'] = i['price']
          order['quantity'] = i['quantity']
  def top_of_book(self, order):
     # return the best bid and offers
     self.sell = sorted(self.sell, order['price'], reverse=True)
     self.buy = sorted(self.buy, order['price'])
```

print the first item in each list print(self.self[0], self.buy[0]) #http://stackoverflow.com/questions/72899/how-do-i-sort-a-list-of-dictionaries-by-values-of-the-dictionary-in-python