Grocery Inventory Simulation

```
#include <iostream>
#include <vector>
#include <algorithm>
void printlnventory(const std::vector<std::string>& inventory) {
  std::cout << "[";
  for (size_t i = 0; i < inventory.size(); ++i) {
    std::cout << "\"" << inventory[i] << "\"";
    if (i < inventory.size() - 1) {</pre>
      std::cout << ", ";
   }
  }
  std::cout << "]" << std::endl;
}
std::vector<std::string> updateInventory(const std::vector<std::string>& currentInventory,
                    const std::vector<std::string>& newShipment,
                    const std::vector<std::string>& soldOutItems) {
```

```
std::vector<std::string> updatedInventory = currentInventory;
  updatedInventory.insert(updatedInventory.end(), newShipment.begin(),
newShipment.end());
  std::sort(updatedInventory.begin(), updatedInventory.end());
updatedInventory.erase(std::unique(updatedInventory.begin(),updatedInventory.end()),upd
atedInventory.end());
 for (const auto& item : soldOutItems) {
    updatedInventory.erase(std::remove(updatedInventory.begin(),
updatedInventory.end(), item), updatedInventory.end());
 }
 return updatedInventory;
}
int main() {
  std::vector<std::string> currentInventory = {"apples", "bananas", "pears"};
  std::vector<std::string> newShipment = {"kiwis", "bananas", "grapes"};
  std::vector<std::string> soldOutItems = {"apples", "oranges"};
  std::cout << "Current Inventory: ";
  printlnventory(currentlnventory);
  std::cout << "Shipment: ";
  printInventory(newShipment);
  std::cout << "Soul-out items: ";
  printInventory(soldOutItems);
  std::vector<std::string> updatedInventory = updateInventory(currentInventory,
newShipment, soldOutItems);
```

```
std::cout << "Updated Inventory: ";
printInventory(updatedInventory);
return 0;
}</pre>
```