

Online Shopping Cart System

You are developing a simplified shopping cart system for an online store. The program should allow users to add items to their cart, view the total, and remove items.

Requirements:

1. **Input:**
 - Ask the user **how many** different items they want to add to the cart.
 - For each item, input the **product name**, **price**, and **quantity**.
2. **Processing:**
 - Calculate the **total price** for each item in the cart by multiplying the price by the quantity.
 - Calculate the **total cost** of all items in the cart.
 - Allow the user to **remove an item** from the cart by providing the product name, and update the total cost.
3. **Output:**
 - Display the list of items in the cart with their prices, quantities, and total prices.
 - Display the total cost of the cart after any changes (e.g., removing an item).

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Pseudo Code:

1. **Start**
2. **Create** a scanner object to take user input
3. **Display** a message to ask the user how many products they want to add to the cart
4. **Read** the number of products and store it in a variable numOfItems
5. **Create** arrays to store:
 - Product names
 - Prices
 - Quantities
 - Total prices of each product
6. **Initialize** totalCost to 0 (to track the total cart cost)
7. **For** each product (loop from 0 to numOfItems - 1):
 - **Prompt** the user to input the product name, price, and quantity

- **Store** the values in the respective arrays
 - **Calculate** the total price for the product (price * quantity)
 - **Add** the total price to totalCost
8. **Display** a summary of the shopping cart:
- **For** each product, **print** its name, quantity, and total price
 - **Print** the total cost of all products
9. **Ask** the user if they want to remove an item from the cart (yes/no)
10. **If** the user responds with "yes":
- **Ask** the user for the name of the product to remove
 - **Find** the product in the array
 - **Subtract** the product's total price from the total cost
 - **Display** a message confirming the product has been removed
 - **Print** the updated total cost
11. **If** the user responds with "no":
- **Display** a message saying no item was removed
 - **Print** the final total cost
12. **End**