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C204-BSCS

```python
def menu():
    print("\nMENU OPTIONS")
    print("1 - Add Items")
    print("2 - Search for an Item")
    print("3 - Remove an Item")
    print("4 - View all Items (Sorted A-Z or Z-A)")
    print("0 - Exit Program")

items = []

while True:
    menu()
    choice = input("Pick one [0 to quit]: ")

    if choice == "1":
        print("Enter items (type 'x' to stop):")
        while True:
            item = input("Item: ")
            if item.lower() == "x":
                break
            items.append(item)
        print("Done adding items!")

    elif choice == "2":
        search = input("Enter item to search: ")
        count = items.count(search)
        if count > 0:
            print(f"{search} found {count} time(s).")
        else:
            print(f"{search} not found in the list.")

    elif choice == "3":
        rem = input("Enter item to remove: ")
        if rem in items:
            items.remove(rem)
            print(f"{rem} found and deleted.")
        else:
            print(f"{rem} not found - deletion unsuccessful.")
```

```python
        elif choice == "4":
            if len(items) == 0:
                print("List is empty.")
            else:
                order = input("Sort A-Z or Z-A? (A/Z): ").upper()
                if order == "A":
                    sorted_list = sorted(items)
                elif order == "Z":
                    sorted_list = sorted(items, reverse=True)
                else:
                    sorted_list = items
                print("Items in the list:")
                for i in sorted_list:
                    print(i)

        elif choice == "0":
            print("Exiting program...")
            break

        else:
            print("Invalid option. Try again.")
```

Sample Output

Compile Result

```
MENU OPTIONS
1 - Add Items
2 - Search for an Item
3 - Remove an Item
4 - View all Items (Sorted A-Z or Z-A)
0 - Exit Program
Pick one [0 to quit]: █
```

```
MENU OPTIONS
1 - Add Items
2 - Search for an Item
3 - Remove an Item
4 - View all Items (Sorted A-Z or Z-A)
0 - Exit Program
Pick one [0 to quit]: 1
Enter items (type 'x' to stop):
Item: Apple
Item: x
Done adding items!
```

```
MENU OPTIONS
1 - Add Items
2 - Search for an Item
3 - Remove an Item
4 - View all Items (Sorted A-Z or Z-A)
0 - Exit Program
Pick one [0 to quit]: 2
Enter item to search: Apple
Apple found 1 time(s).
```

```
MENU OPTIONS
1 - Add Items
2 - Search for an Item
3 - Remove an Item
4 - View all Items (Sorted A-Z or Z-A)
0 - Exit Program
Pick one [0 to quit]: 3
Enter item to remove: Apple
Apple found and deleted.

MENU OPTIONS
1 - Add Items
2 - Search for an Item
3 - Remove an Item
4 - View all Items (Sorted A-Z or Z-A)
0 - Exit Program
Pick one [0 to quit]: 2
Enter item to search: Apple
Apple not found in the list.

MENU OPTIONS
1 - Add Items
2 - Search for an Item
3 - Remove an Item
4 - View all Items (Sorted A-Z or Z-A)
0 - Exit Program
Pick one [0 to quit]: █
```

```
MENU OPTIONS
1 - Add Items
2 - Search for an Item
3 - Remove an Item
4 - View all Items (Sorted A-Z or Z-A)
0 - Exit Program
Pick one [0 to quit]: 4
Sort A-Z or Z-A? (A/Z): A-Z
Items in the list:
Apple
Banana
Orange
```

```
MENU OPTIONS
1 - Add Items
2 - Search for an Item
3 - Remove an Item
4 - View all Items (Sorted A-Z or Z-A)
0 - Exit Program
Pick one [x to quit]: x
Exiting program...

[Process completed - press Enter]█
```