In [1]:
```
# Step 1: Input list of guest IDs
guest_ids = [101, 102, 103, 101, 104, 102, 105]
declined_guest = 103
```

In [2]:
```
# Step 2: Remove duplicates using set (for checking)
unique_set = set()
unique_guests = []
```

In [3]:
```
# Step 3: Loop through original list to maintain order
for guest in guest_ids:
    if guest not in unique_set:          # not duplicate
        unique_set.add(guest)
        unique_guests.append(guest)      # keep order
```

In [4]:
```
# Step 4: Remove declined guest if present
if declined_guest in unique_guests:
    unique_guests.remove(declined_guest)
```

In [5]:
```
# Step 5: Display final guest list
print("Final Unique Guest List:", unique_guests)
```

```
Final Unique Guest List: [101, 102, 104, 105]
```

In [8]:
```
# Create list
numbers = [10, 20, 30, 40]
print("Original List:", numbers)

# Add element numbers.append(50)
print("After append:", numbers)

# Insert element numbers.insert(2, 25)
print("After insert:", numbers)

# Update element
numbers[1] = 15
print("Afterupdate:", numbers)

# Remove element numbers.remove(30)
print("After remove:", numbers)

# Pop element numbers.pop()
print("After pop:", numbers)

# Slicing
print("Slicing (1 to 3):", numbers[1:3])
```

```
Original List: [10, 20, 30, 40]
After append: [10, 20, 30, 40]
After insert: [10, 20, 30, 40]
Afterupdate: [10, 15, 30, 40]
After remove: [10, 15, 30, 40]
After pop: [10, 15, 30, 40]
Slicing (1 to 3): [15, 30]
```

In [11]:
```python
# Create set
fruits = {"apple", "banana", "mango"}
print("Original Set:", fruits)

# Add element
fruits.add("orange")
print("After add:", fruits)

# Update set
fruits.update(["grapes", "apple"])
print("After update:", fruits)

# Remove element
fruits.remove("banana")
print("After remove:", fruits)

# Pop element
fruits.pop()
print("After pop:", fruits)
```

```
Original Set: {'mango', 'banana', 'apple'}
After add: {'orange', 'mango', 'banana', 'apple'}
After update: {'mango', 'grapes', 'orange', 'banana', 'apple'}
After remove: {'mango', 'grapes', 'orange', 'apple'}
After pop: {'grapes', 'orange', 'apple'}
```

In [12]:
```python
# Create dictionary
student = {"name": "Amit", "age": 20, "marks": 80}
print("Original Dictionary:", student)

# Add element
student["city"] = "Mumbai"
print("After add:", student)

# Update value
student["marks"] = 85
print("After update:", student)

# Remove element
student.pop("age")
print("After pop:", student)

# Remove last item
student.popitem()
print("After popitem:", student)
```

```
Original Dictionary: {'name': 'Amit', 'age': 20, 'marks': 80}
After add: {'name': 'Amit', 'age': 20, 'marks': 80, 'city': 'Mumbai'}
After update: {'name': 'Amit', 'age': 20, 'marks': 85, 'city': 'Mumbai'}
After pop: {'name': 'Amit', 'marks': 85, 'city': 'Mumbai'}
After popitem: {'name': 'Amit', 'marks': 85}
```

In [ ]:
```python

```

In [ ]: