```
132.
```

Write a program that takes an input list of n numbers and creates a new list containing only the unique elements from the original list. What is the space complexity of the algorithm? Test Cases

Some Duplicate Elements Input: [3, 7, 3, 5, 2, 5, 9, 2]

Expected Output: [3, 7, 5, 2, 9] (Order may vary based on the algorithm used)

Negative and Positive Numbers

Input: [-1, 2, -1, 3, 2, -2]

Expected Output: [-1, 2, 3, -2] (Order may vary)

List with Large Numbers

Input: [1000000, 999999, 1000000] Expected Output: [1000000, 999999]

AIM: To Remove the duplicates from ana rray

## PROGRAM:

```
def find_unique_elements(nums):
    unique_elements = list(set(nums))
```

return unique\_elements

```
input1 = [3, 7, 3, 5, 2, 5, 9, 2]
```

print(find\_unique\_elements(input1))

input2 = [-1, 2, -1, 3, 2, -2]

print(find\_unique\_elements(input2))

input3 = [1000000, 999999, 1000000]

print(find\_unique\_elements(input3))

```
[2, 3, 5, 7, 9]
[2, 3, -1, -2]
[1000000, 999999]
```

OUTPUT:

TIME COMPLEXITY: O(n)