Aim:

To count and print numbers that occur more than once in an array.

Algorithm:

1. Initialize a frequency array.
2. Traverse the input array and update frequency counts.
3. Print numbers with frequency > 1 along with their counts.

Code:

```
#include <stdio.h>

int main() {
    int arr[] = {1, 2, 2, 3, 1, 4, 1};
    int n = sizeof(arr) / sizeof(arr[0]);
    int freq[100] = {0};  // Assuming numbers are less than 100

    for (int i = 0; i < n; i++) {
        freq[arr[i]]++;
    }

    printf("Frequently repeated numbers and their counts:\n");
    for (int i = 0; i < 100; i++) {
        if (freq[i] > 1) {
            printf("Number %d repeated %d times\n", i, freq[i]);
        }
    }

    return 0;
}
```

Input:

```
arr = {1, 2, 2, 3, 1, 4, 1}
```

Output:

```
Frequently repeated numbers and their counts:
```

```
Number 1 repeated 3 times
Number 2 repeated 2 times
```

Result:

Repeated numbers and counts printed successfully.