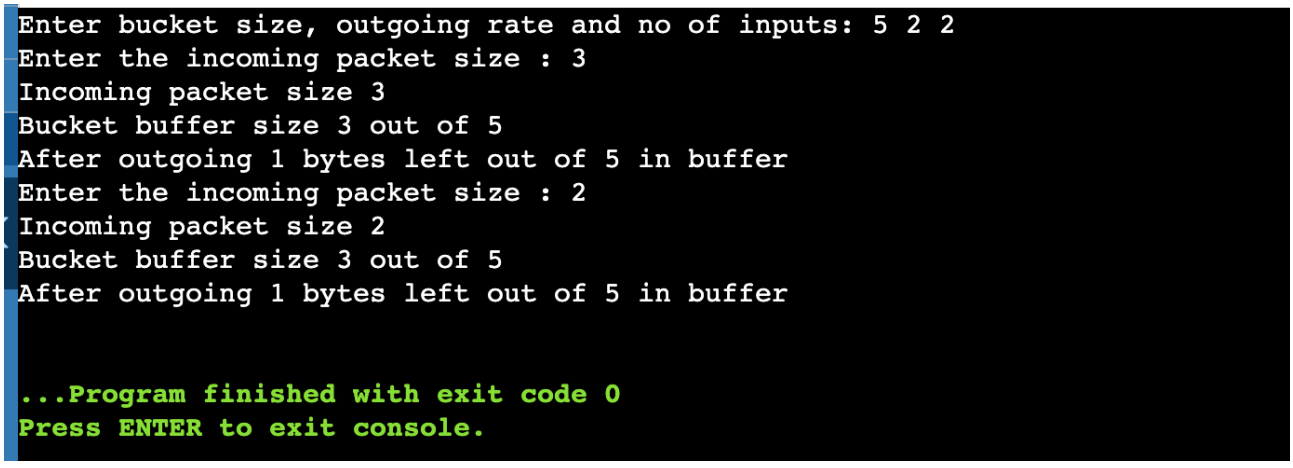
Leaky Bucket Algorithm

```
#include<stdio.h>

int main(){
    int incoming, outgoing, buck_size, n, store = 0;
    printf("Enter bucket size, outgoing rate and no of inputs: ");
    scanf("%d %d %d", &buck_size, &outgoing, &n);

    while (n != 0) {
        printf("Enter the incoming packet size : ");
        scanf("%d", &incoming);
        printf("Incoming packet size %d\n", incoming);
        if (incoming <= (buck_size - store)){
            store += incoming;
            printf("Bucket buffer size %d out of %d\n", store, buck_size);
        } else {
            printf("Dropped %d no of packets\n", incoming - (buck_size - store));
            printf("Bucket buffer size %d out of %d\n", store, buck_size);
            store = buck_size;
        }
        store = store - outgoing;
        printf("After outgoing %d bytes left out of %d in buffer\n", store, buck_size);
        n--;
    }
}
```

Output:



Observation:

17/12/24

LEAKY BUCKET ALGORITHM.

```
#include <stdio.h>

int main()
{
    int incoming, outgoing, buck_size, n, store = 0;
    printf("%d %d %d", &buck_size, &outgoing, &n);
    while(n != 0){
        printf(" Enter the incoming packet size :");
        scanf(" %d", &incoming);
        printf (" Incoming packet size %d\n", incoming);

        if [incoming <= (buck_size - store)) {
            store += incoming;
            printf("Bucket buffer size %d out of
                %d\n", store, buck_size);
            }
        else {
            printf("Dropped %d no of packets\n",
                incoming - (buck_size - store));
            printf(" Bucket buffer size %d out
                of %d\n", store, buck_size);
            store = buck_size;
        }
        store = store - outgoing;
        printf(" After outgoing %d bytes left out
                of %d in buffer\n", store, buck_size);
        n--;
}
```

OUTPUT:

Enter Bucket size, outgoing rate and no of inputs:
5 2 2
Enter the incoming packet size : 3
Incoming packet size 3
Bucket buffer size 3 out of 5
After outgoing 1 bytes left out of 5 in buffer
Enter the incoming packet size : 2
Incoming packet size : 2
Bucket buffer size 3 out of 5
After outgoing 1 bytes left out of 5 in buffer