## Program 2

**Aim of the program:** Write a program for congestion control using Leaky bucket algorithm **Code:** 

```
#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--;
   int main(){
        int incoming, outgoing, buck_size, n, store = 0;
              ("Enter bucket size, outgoing rate and no of inputs: ");
             ("%d %d %d", &buck_size, &outgoing, &n);
        while (n != 0) {
                   ("Enter the incoming packet size : ");
                 ("%d", &incoming);
                  ("Incoming packet size %d\n", incoming);
            if (incoming <= (buck_size - store)){</pre>
                store += incoming;
                       ("Bucket buffer size %d out of %d\n", store, buck_size);
            } else {
                       ("Dropped %d no of packets\n", incoming - (buck_size - store));
                      ("Bucket buffer size %d out of %d\n", store, buck_size);
                store = buck_size;
            store = store - outgoing;
                 tf("After outgoing %d bytes left out of %d in buffer\n", store, buck_size);
```

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**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
```

