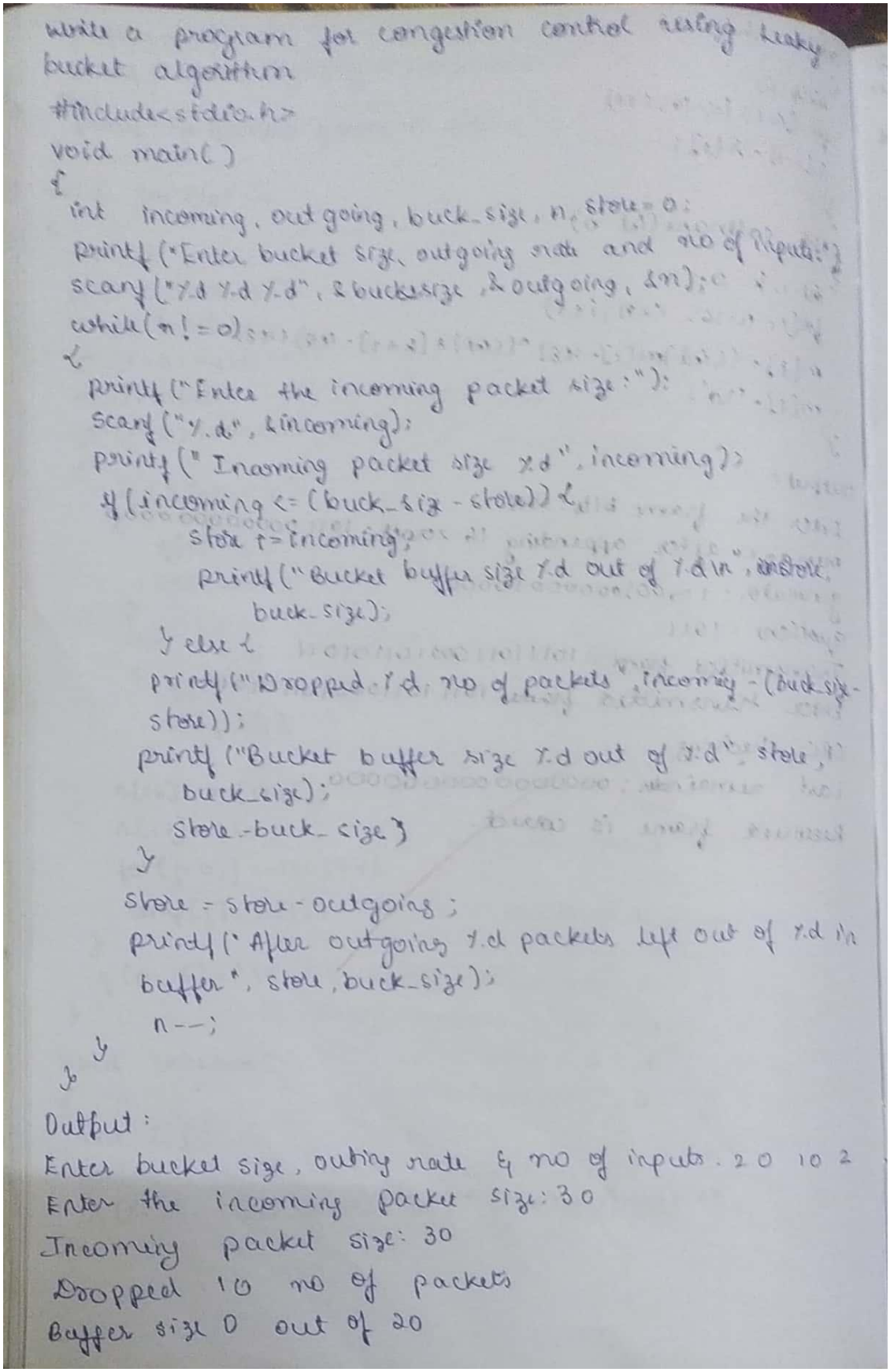
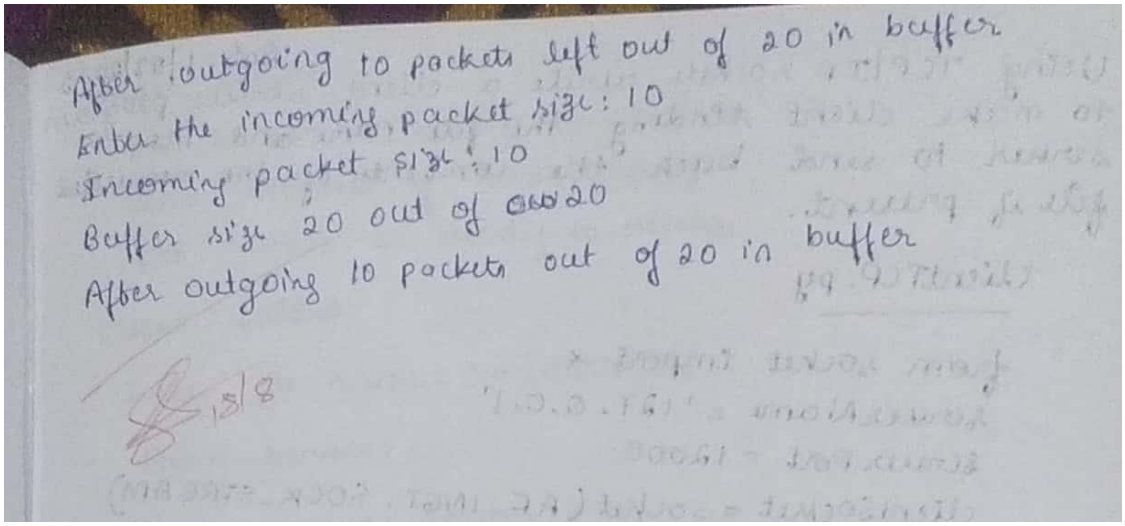
Write a program for congestion control using Leaky bucket algorithm



```
write a program for congestion control using Leaky
bucket algorithm
#include<stdio.h>
void main()
{
 int incoming, outgoing, buck_size, n, store=0;
 printf("Enter bucket size, outgoing rate and no of inputs:");
 scanf("%d %d %d", &bucksize, &outgoing, &n);
 while(n!=0)
 {
  printf("Enter the incoming packet size:");
  scanf("%d", &incoming);
  printf("Incoming packet size %d", incoming);
  if(incoming <= (buck_siz - store)){
        store += incoming;
        printf("Bucket buffer size %d out of %d in", store,
          buck_size);
      } else {
      printf("Dropped %d no of packets", incoming - (buck_siz-
      store));
      printf("Bucket buffer size %d out of %d", store,
        buck_size);
        store = buck_size}
     }
     store = store - outgoing;
     printf("After outgoing %d packets left out of %d in
      buffer", store, buck_size);
       n--;
   }
}
```

Output:

```
Enter bucket size, outing rate & no of inputs. 20 10 2
Enter the incoming packet size: 30
Incoming packet size: 30
Dropped 10 no of packets
Buffer size 0 out of 20
```



Output:

```
Enter bucket size, outgoing rate and no of inputs: 10 10 2
Enter the incoming packet size : 30
Incoming packet size 30
Dropped 20 no of packets
Bucket buffer size 0 out of 10
After outgoing 0 packets left out of 10 in buffer
Enter the incoming packet size : 10
Incoming packet size 10
Bucket buffer size 10 out of 10
After outgoing 0 packets left out of 10 in buffer
```