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write a C program for congestion control using leaky bucket algorithm

```
#include <stdio.h>

int incoming, outgoing, buck_size, n, store=0;
printf ("enter bucket size, outgoing rate &
        no. of inputs: ");
scanf ("%d %d %d %d", &buck_size, &outgoing,
                      &n);
while (n!=0) {
printf ("enter the incoming packet size: ");
scanf ("%d", &incoming);
printf ("Incoming packet size %d", incoming);
if (incoming <= (buck_size - store)) {
        store += incoming;
printf ("bucket buffer size %d out of %d\n", store,
                      bucksize); } else {
printf ("Dropped %d no. of packets", incoming -
        (bucksize - store));
printf ("Bucket buffer size %d out of %d", store,
                      bucksize);
    store = bucksize; }
  store = store - outgoing;
printf ("after outgoing %d packets left out
        of %d in buffer", store, bucksize);
    n--;
  }
}
```

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- OUTPUT-

enter bucket size, outgoing 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
after outgoing 10 packets left out of 20 in buffer

→ enter the incoming packet size: 10

⇒ incoming packet size: 10
buffer size 20 out of 20
after outgoing 10 packets out of 20 in buffer.

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