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SEC:B
1)Design a C program for congestion control using 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 packets left out of %d in buffer\n", store, buck size);
     n--;
  }
```

Output: