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Q4. Write a program for congestion control using Leaky Bucket algorithm.

```
bucketSize = int(input("Enter the  
Bucket size : "))  
outgoingRate = int(input("Enter the  
outgoing Rate : "))  
n = int(input("Enter the Number of  
Input packets : "))  
store = 0  
  
while n > 0:  
    incoming_pktsize = int(input("Enter  
the incoming packet size : "))  
    if incoming_pktsize <= (bucketSize -  
        store):  
        store += incoming_pktsize  
        print("Bucket Buffer size ", store,  
            " out of ", bucketSize)
```


else:

print("Discarded ", (incoming_pktsize -
(bucketSize - store)), " Incoming
packets. ")

print("Bucket Buffer size ", store,
" out of ", bucketSize)

store -= outgoingRate

n -= 1.