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```
def leaky_bucket (output, bucket_size):
    print ("the output rate is: {output}")
    print ("the bucket size is: {bucket_size}")
    packet_no = int (input ("Enter no. of packets"))
    for i in range of packet_no:
        packet_size = int (input ("Enter size of packet"))
        if packet_size < bucket_size:
            if packet_size <= output:
                print ('Packet numbe: {i} packet size:
                        {packet_size} -)
                print ('Bucket output successful')
                print ('last {packet_size} bytes sent')
                print ('\n')
            else
                print ('Packet numbe: {i} packet size:
                        {packet_size} -)
                print ('Bucket output successful')
                print ("{output} bytes outputted")
                sent = packet_size - output
                print ("last {sent} bytes sent")
                print ('\n')
        else:
            print ("Packet numbe {i} Packet size: {packet_size}")
            print ("Bucket overflow")
            print ('\n'
output = int (input ("Enter output rate"))
bucket_size = int (input ("Enter bucket size"))
leaky_bucket (output, bucket_size)
```