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```
class LeakyBucket:
    def __init__(self, bucket_size, output, packets):
        self.bucket_size = bucket_size
        self.output = output
        self.packets = packets

    def congestion_control(self):
        for i in range(self.no_of_packets):
            print("packet no", i, " packet size = ", packets[i])
            if packets[i] > bucket_size:
                print("Bucket overflow")
            else:
                while packets[i] > output:
                    print(packets[i], "bytes outputted")
                    packets[i] -= output
                if packets[i]:
                    print("Last", packets[i], "bytes sent")
        print("Bucket output successful")

bucket_size = int(input("Enter bucket_size: "))
output = int(input("Enter output rate"))
packets = list(map(int, input("Enter packets:").split())
network = LeakyBucket(Bucket_size, output, packets)
network.congestion_control()
```

Teacher's Signature : _____