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1BM18CS145

CN Lab 10

```
class LeakyBucket:
    def __init__(self, bucket_size, input_stream,
                 output_rate):
        self.size = bucket_size
        self.queue = input_stream
        self.flow = output_rate

    def control_congestion(self):
        buffer = 0
        for packet in self.queue:
            x = self.size - buffer
            if packet < x:
                buffer += packet
                print("Sent", self.flow, "Buffer", buffer)
            else: print("Loss", packet - x)
                buffer = self.size
        buffer -= self.flow
        while buffer:
            sent = self.flow if self.flow < buffer else buffer
            buffer -= sent
            print("Buffer", buffer, "Sent", sent)

# driver code
network = LeakyBucket(bucket_size, input_stream, output_rate)
network.control_congestion()
```