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1BM18CS036

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CN Lab - Lab9

Leaky Bucket

```
def leakyBucket:
    def algo(~~input, output, size)~~ self, input):
        output = self.flow ; size = self.size
        buffer = 0
        i = 0
        for pkt in input:
            print(f'Packet no {i} Packet size {pkt}')
            x = size - buffer

            if pkt < x:
                buffer += pkt
                print("Bucket output successful")
                print(f'Last {pkt} bytes sent')

            else:

                print("Bucket overflow")

                buffer = size

                ~~print~~

            buffer = buffer - output
            i += 1
        while buffer:
            print(f'packet no {i} Packet size {output}
            if output < buffer
                sent = output
            else
                sent = buffer

            buffer = buffer - sent
            print(f'Last {sent} bytes sent')
```

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(1)

```
    def __init__(self, bucket_size, output_rate):
        self.size = bucket_size
        self.flow = output_rate


inp_stream = [int(x) for x in input().split(' ')]

buff_size = int(input())

out_rate = int (input())

net = LeakyBucket(buff_size, out_rate)

net. algo(imp_stream):
```