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classmate
Date
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Leaky Bucket Algorithm

```
def main():
```

```
    bucketSize = int(input('Enter the bucket size: '))
```

```
    outputRate = int(input('Enter the output rate: '))
```

```
    numberOfPackets = int(input('Enter number of packets: '))
```

```
    for i in range('n Packet number: '):
```

```
        print('n Packet number: ')
```

```
        print(i+1)
```

```
        packetSize = int(input('Enter packet size: '))
```

```
        if packetSize < bucketSize:
```

```
            if (packetSize <= outputRate):
```

```
                print('Bucket output successful!')
```

```
                print('Last bytes sent: ')
```

```
                print(packetSize)
```

```
            else:
```

```
                print('Bucket output successful!')
```

```
                print('Bytes outputted: ')
```

```
                print(outputRate)
```

```
                sent = packetSize - outputRate
```

```
                print('Last bytes sent: ')
```

```
                print(sent)
```

```
        else
```

```
            print('Bucket overflow!!')
```

```
main()
```