

Write-up

→ Leaky Bucket Algorithm

```
def input_bucket(pack, rate, bufsize):
```

```
    if (pack > bufsize):
```

```
        print("Bucket Overflow")
```

```
    else:
```

```
        while pack > rate:
```

```
            print("Bytes transmitted:", rate)
```

```
            pack = pack - rate
```

```
    if (pack > 0)
```

```
        print("Last byte transmitted:", rate)
```

```
        print("Bucket output successful")
```

```
def main:
```

```
    print("Enter bucket size")
```

```
    bsize = input("Enter bucket size")
```

```
    bsize = int(input("Enter bucket size:"))
```

```
    rate = int(input("Enter output rate:"))
```

```
    n = int(input("Enter num. of packets:"))
```

```
    pack = [int(x) for x in input().split()]
```

```
    input_bucket(pack, rate, bsize)
```

```
if __name__ == "__main__":
```

```
    main()
```

@ayan