

Leaky bucket algorithm

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Code →

```
queue = list(map(int, input().split(" ")))
```

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

```
st = out_rate
```

```
i = 0
```

```
while queue:
```

```
    print("packet no." + str(i) + ", Packet size: " + str(queue[-1]))
```

```
    if queue[-1] < out_rate:
```

```
        out_rate -= queue[-1]
```

```
        x = queue.pop()
```

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

```
    elif queue[-1] > out_rate:
```

```
        out_rate = st  
        out_rate = st
```

```
    if 'queue[-1] > out_rate:
```

```
        print("Bucket overflow")
```

```
        break
```

```
        break
```

```
    
```

```
    elif queue[-1] < out_rate:
```

```
        out_rate -= queue[-1]
```

```
        x = queue.pop()  
        x = queue.pop()
```

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

```
        print("last " + str(x) + " bytes sent")
```