

leaky bucket algorithm

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

```
    storage = 0
```

```
    bucket_size = int(input("Enter Max Bucket capacity:"))
```

```
    input_size = int(input("Enter size of packet coming in:"))
```

```
    # out flow
```

```
    output_size = int(input("Enter number of packets going out:"))
```

```
    # number of times bucket is checked.
```

```
    for i in range(queues):
```

```
        size_left = bucket_size - storage    # space left.
        input_size = int(input("Enter number of packets going out:"))
        if (input_size <= size_left):
```

```
            storage += input_size
```

```
            print("Buffer Size = {} Bucket Size = {}".format(
```

```
                storage, bucket_size))
```

```
        else:
```

```
            print("Packet loss = {}".format(input_size -
                                                size_left))
```

```
            storage = bucket_size
```

```
            print("Buffer Size = {} Bucket Size = {}".format(
```

```
                storage, bucket_size))
            storage -= output_size
```