

## Leaky Bucket Algorithm

```
#include<stdio.h>

int main(){
    int incoming, outgoing, buck_size, n, store = 0;
    printf("Enter bucket size, outgoing rate and no of inputs: ");
    scanf("%d %d %d", &buck_size, &outgoing, &n);

    while (n != 0) {
        printf("Enter the incoming packet size : ");
        scanf("%d", &incoming);
        printf("Incoming packet size %d\n", incoming);
        if (incoming <= (buck_size - store)){
            store += incoming;
            printf("Bucket buffer size %d out of %d\n", store, buck_size);
        } else {
            printf("Dropped %d no of packets\n", incoming - (buck_size - store));
            printf("Bucket buffer size %d out of %d\n", store, buck_size);
            store = buck_size;
        }
        store = store - outgoing;
        printf("After outgoing %d bytes left out of %d in buffer\n", store, buck_size);
        n--;
    }
}
```

Output:

```
Enter bucket size, outgoing rate and no of inputs: 5 2 2
Enter the incoming packet size : 3
Incoming packet size 3
Bucket buffer size 3 out of 5
After outgoing 1 bytes left out of 5 in buffer
Enter the incoming packet size : 2
Incoming packet size 2
Bucket buffer size 3 out of 5
After outgoing 1 bytes left out of 5 in buffer

...Program finished with exit code 0
Press ENTER to exit console.
```

Observation:

17/12/24

classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

## LEAKY BUCKET ALGORITHM.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int incoming, outgoing, bucket-size, n, store = 0;
```

```
    printf("Enter bucket size, incoming packet size & outgoing packet size: ");
```

```
    while (n != 0)
```

```
    {
```

```
        printf("Enter the incoming packet size: ");
```

```
        scanf("%d", &incoming);
```

```
        printf("Incoming packet size: %d\n", incoming);
```

```
        if (incoming <= (bucket-size - store))
```

```
        {
```

```
            store += incoming;
```

```
            printf("Bucket buffer size %d out of %d\n", store, bucket-size);
```

```
        }
```

```
        else
```

```
        {
```

```
            printf("Dropped %d no of packets\n",
```

```
            incoming - (bucket-size - store));
```

```
            printf("Bucket buffer size %d out of %d\n", store, bucket-size);
```

```
            store = bucket-size;
```

```
        }
```

```
        store = store - outgoing;
```

```
        printf("After outgoing %d bytes left out of %d in buffer\n", store, bucket-size);
```

```
        n--;
```

```
}
```



LEAKY BUCKET APPROACH

522

Incoming packet size 3

Bucket buffer size 3 Out of 3  
After outgoing 1 byte left out of 3 in buffer

Incoming packet size: 2560 (1024) window

After outgoing 1 bytes left out of 5 in buffer

Green

2) Store = buff-size  
of 1440" (store, buff-size)  
Print "Bucket buffer size is out  
of memory - (buff-size - store)";

propaganda - word = spread  
"After outgoing Y4 paper  
of Y6 is published" from  
left out

