

Write a prog. for congestion control using leaky bucket algo

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

```
int main() {
```

```
int incoming, outgoing, bucketsize, n, store = 0;  
printf("Enter bucket size, out rate & no of inputs");  
scanf("%d %d %d", &bucketsize, &outgoing, &n);
```

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

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

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

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

```
if (incoming <= (bucketsize - store)) {
```

```
store += incoming;
```

```
printf("Bucket Bfr size %d out of %d\n",  
store, bucketsize);
```

```
}
```

```
else {
```

```
printf("Dropped %d no. of packets\n",  
incoming - (bucketsize - store));
```

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

```
store = bucketsize;
```

```
}
```

```
store -= outgoing;
```

```
printf("After outgoing %d packets left out  
%d in buffer\n", store, bucketsize);
```

```
n--;
```

```
}
```

```
return -1;
```

```
}
```

OUTPUT.

Enter bucket size, out rate & no. of inputs: 20 10 2

Enter the incoming packet size: 30

Incoming packet size: 30

Dropped 10 no. of packets

Bucket buffer size 0 out of 20

After outgoing 10 packets left out 20 in buffers

Enter the incoming packet size: 10

Incoming packet size: 10

Bucket buffer size 10 out of 20

After outgoing 10 packets left out of 20
in buffers.

S. Case

9/10

1/9/23

```
Enter bucket size, outgoing rate and no of inputs: 10 10 2
Enter the incoming packet size : 30
Incoming packet size 30
Dropped 20 no of packets
Bucket buffer size 0 out of 10
After outgoing 0 packets left out of 10 in buffer
Enter the incoming packet size : 10
Incoming packet size 10
Bucket buffer size 10 out of 10
After outgoing 0 packets left out of 10 in buffer
|
```