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1: // Write a program to archive Traffic management at Flow Level by implementing Leaky
2: // Bucket Algorithm.
3:
4: #include<stdio.h>
5: int main(){
6:     int incoming, outgoing, buck_size, n, store = 0;
7:     printf("Enter bucket size, outgoing rate and no of inputs: ");
8:     scanf("%d %d %d", &buck_size, &outgoing, &n);
9:     //While through number of inputs
10:    while (n != 0)
11:    {   printf("\n\nEnter the incoming packet size : ");
12:        scanf("%d", &incoming);
13:        printf("Incoming packet size %d\n", incoming);
14:        if (incoming <= (buck_size - store))
15:        {   store += incoming; //Add to bucket
16:            printf("Bucket buffer size %d out of %d\n", store, buck_size);
17:        }
18:        else
19:        {   printf("DROPPED %d no of packets\n", incoming - (buck_size - store));
20:            printf("Bucket buffer size %d out of %d\n", store, buck_size);
21:            store = buck_size; //Drop extra packets
22:        }
23:        store = store - outgoing;
24:        printf("After outgoing %d packets left out of %d in buffer\n", store, buck_size);
25:        n--; //Remove outgoing packet from full size of bucket
26:    }
27: }

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