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BATCH:A2  
  
#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 packets left out of %d in buffer\n", store, buck\_size);  
        n--;  
    }  
}