Program

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#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--;
}
}
```

Output