## Leaky bucket

```
Code:
 # include < stdioh>
 # include < conio.h>
 void main () {
      int bucket_size;
                      farmer tra
      int dr;
      prints ("Enter bucket size and data rate Ini).
      scans ("Id", & bucker_size);
      scan ( " 1. d", fdr);
      int emp = bucket_size;
      while (1)
      3
        int ch:
        int ps;
        printy ("Enter the packet size : In");
        Scank ("1.d" &ps);
        prints ( remaining empty size 1.d In", emp).
     if (ps <= bucket_size)
         is (ps <= emp)
            prints (" packet of size 1-d transmitted
             : 10", ps);
```

```
else
   prints ("packet dropped: \n");
      ۶
 else
  printy ("packet dropped in");
   7
printy ("Do you want to continue transmitting
 data? In 1 or 07: ");
 scang ("1.d", & ch);
   if (ch==0)
       break;
   emp = emp - ps +dr;
```

1 or 0? :

Output

```
Enter bucket size and data rate
5000 200
Enter the packet size :
2000
remaning empty size 5000
packet of size 2000 transmitted :
Do you want to continue transmitting data?
1 or 0? :1
Enter the packet size :
3000
remaning empty size 3200
packet of size 3000 transmitted :
Do you want to continue transmitting data?
1 or 0? :1
Enter the packet size :
3000
remaning empty size 400
packet dropped
```

Do you want to continue transmitting data?