leaky bucket

Aim: Write a program for congestion control using Leaky bucket algorithm.

```
# include< stdio.h>
# include <conio.h>
 void main ()
{
    int bucket_size;
    int dr;
    printf ("Enter the bucket size &
                    data rate \n");
    scanf ("%d", & bucket_size);
    scanf ("%d", & dr);
    int emp = bucket_size ;
    while (1)
    {
      int ch;
      int ps;
      printf ("Enter the packet size: \n");
      scanf ("%d", &ps);
      if ( ps <= bucket size)
      {
          if ( ps <= emp)
            printf ("packet of size
                  %d transmitted
                  \n");
        else
          printf ("packet dropped \n");
      emp = emp ps+dr;
    }
```

```
else
    printf("packed dropped");

    printf("Want to continue transmitting dat
    scanf("%d", &ch);
    if(ch == 0)
        break;
    }
}
```

output:

Enter bucket size and data rate
5000
200
Enter the packet size :
6000
packet dropped
Want to continue transmitting dat ?
1 or 0? :1
Enter the packet size :
3000
packet of size 2000 transmitted.
Do you Want to continue transmitting data?
1 or 0? : 1.
Enter size of packet:
2000
packet of size 2000 transmitted.
Want to continue transmitting data?
1 or 0? : 0

9/10

24/8/23

```
Enter bucket size and data rate
1000
200
Enter the packet size :
 600
remaning empty size 1000
packet of size 600 transmitted :
Do you want to continue transmitting data?
 1 or 0? :1
Enter the packet size :
 100
remaning empty size 600
packet of size 100 transmitted :
Do you want to continue transmitting data?
 1 or 0? :1
Enter the packet size :
 700
remaning empty size 700
packet of size 700 transmitted :
Do you want to continue transmitting data?
 1 or 0? :1
Enter the packet size :
 100
remaning empty size 200
packet of size 100 transmitted :
Do you want to continue transmitting data?
 1 or 0? :
```