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YOUVA

8/23 Experiment-2 :-

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

```
#include<stdio.h>
int main ()?
    int in, out, bsize, n, available = 0;
    printf ("Enter bucket size: ");
    scanf ("%d", &bsize);
    printf ("Enter the outgoing rate: ");
    scanf ("%d", &out);
    printf ("Enter the no. of inputs: ");
    scanf ("%d", &n);
  while (n!=0) {
    printf ("Enter the incoming packet size: ");
    scanf ("%d", &in);
    printf ("Incoming packet size %d \n", in);
    if (in <= (bsize-available)) {
        available += in;
        printf ("Bucket buffer size %d, out of
        %d \n", available, bsize); }
        else ?
        printf ("Dropped %d no. of packets \n");
                in - (bsize - available);
        printf ("Bucket buffer size %d out of
    %d ", available, bsize);
    available = bsize;
}
    available = available - out;
    printf ("After outgoing % packets left out of
    % in buffer \n", available, bsize);
        n--;
}
}
```

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Output:-

Enter the bucket size : 1000
Enter the outgoing rate : 200
Enter the no. of inputs : 6
Enter the incoming packet size : 200
Incoming packet size : 200
Bucket buffer size 200 out of 1000
After outgoing 0 packets left out of 1000 in buffer
Enter the incoming packet size : 100
Incoming packet size : 100
Buffer buffer size 400 out of 1000
After outgoing 200 packets left out of 1000
Enter the incoming packet size : 450
Bucket buffer size 650 out of 1000
After outgoing 450 packets left out of 1000
Enter the incoming packet size : 500
Bucket buffer size 950 out of 1000
After outgoing 650 packets out of 1000
Enter the incoming packet size : 0
Bucket buffer size 650 out of 1000
After outgoing 450 packets left out of 1000.