Batch 3
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CN-LAB

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Congestion Control using Leaky Bucket Algorithm :

```
# include<bits/stdc++.h>
Using namespace std;
#define bucketsize 512

void bucketInput (int a, int b)
{
    if (a > bucketsize)
        cout << "\n\t\t Bucket Overflow";
    else{
        delay(500);
        while(a>b){
            cout << "\n\t\t" <<b<< " bytes outputted";
            a-=b
            delay(500);
        }
        if(a>0)
            cout <<"\n\t\t Last " << a << " bytes sent\t";
        Cout << "\n\t\t Bucket output successful";
    }
}

int main()
{
    int op , pktSize;
    randomize();
    Cout << "Enter output rate :";
    cin >> op;
```

```
for (int i=1; i<=5; i++)
{
    delay (random (1000));
    pktsize = random (1000);
    cout << "\n Packet no " << i << "\t Packet size = " <<pktSize;
    bucketInput (pktSize, op);
}
}
```