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IBM18CS017

Program for 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;
```



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```
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);
}
}
```