

Leaky Bucket Algorithm.

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B3-Batch.

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```
#include <iostream.h>
#include <dos.h>
#include <stdlib.h>
#define bucketSize 512

void bktInput(int a, int b) {
    if(a > bucketSize)
        cout << "!!!! Bucket overflow";
    else
    {
        delay(500);
        while(a > b) {
            cout << "||||| "<< b << " bytes
                outputted";
            a -= b;
            delay(500);
        }
        if(a > 0) cout << "||||| Last "<< a << "
            bytes sent\n";
        cout << "||||| Bucket output successful\n";
    }
}

void main() {
    int op, pktSize;
    srand(time(0));
    cout << "Enter output rate : "; cin >> op;
    for(i = 1; i <= 5; i++) {
        delay(random(1000));
        pktSize = random(1000);
        cout << "\n packet no "<< i << "\n Packet size = "<< pktSize;
        bktInput(pktSize, op);
    }
}
```