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CN - LAB

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Leaky Bucket Algorithm

```
#include <iostream.h>
#include <stdlib.h>
#define bucket_size 1000

void bucket_input (int a, int b)
{
    if ( a > bucket_size)
        cout << "\n\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 Last " << a << "
                bytes sent \t";
    }
```

```
        cout << "\n\t Bucket output
                                successful";
    } }

int main()
{
    int op, pkt size;

        random size();
    cout << "Enter output rate: ";
        cin >> op;
    for (int i=1; i<=5; i++)
    { delay (random (1000));
        pkt size = random(1000);
    cout << "\n Packet no" << i << "\t
            Packet size = " << pkt size;
        bucket_input ( pkt_size, op);
    } }
```

Regards