

write a program for congestion control using leaky bucket algorithm.

```
#include <iostream.h>
#include <stdlib.h>
#define bucket size 1000

void bucketInput(int a, int b)
{
    if (a > bucket size)
        cout << "\n\t\t\t Bucket overflow";
    else
    {
        delay(500);
        while (a > b)
        {
            cout << "\n\t\t\t" << b << " bytes outputted";
            b -= 1;
            delay(500);
        }
    }

    if (a > 0)
        cout << "\n\t\t\t last" << a << " bytes sent \t";
    cout << "\n\t\t\t Bucket output successful";
}

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