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CN - LAB - WEEK - 9

Write a program for congestion control using Leaky bucket Algorithm

```
#include <bits/stdc++.h>
using namespace std;
int bucketsize = 512;
void delay (unit delay)
{
    int now = time (NULL);
    int later = now + delay;
    while (now <= later) now = time (NULL);
}
void bktInput (int a, int b)
{
    if (a > bucketSize)
    {
        cout << "\n\t Bucket is Overflow";
    }
    else
    {
        delay(1);
        while (a>b)
        {
        cout << "\n \t" << b << " bytes outputted";
        a -= b
```


Chef.

```
    - delay(1);
    }
  if(a>0)
    {
    cout<<"\n\t\t last"<< a<<" byte 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(1);
     pktsize= rand()%1000;
     cout<<"\n packet no "<<i<<"\t packet size="<<
                          pktsize;
          bktinput(pktsize, op);
        }
   return 0;
}
```


Chf.