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SUB: CN LAB II

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 << " \t bucket overflow \t";
```

```
    else {
```

```
        delay (500);
```

```
        while (a > b) {
```

```
            cout << " \t \t " << b << " byte out";
```

```
            a -= b
```

```
            delay (500); }
```

```
    if (a > 0)
```

```
        cout << " \t \t Last" << a << " bytes  
        sent \t";
```

```
        cout << " \t \t Bucket output success";
```

```
    } }
```

```
int main () {
```

```
    input op, pktSize;
```

```
    cout << "enter output rate: ";
```

```
    cin >> op
```

```
    for (int i = 1; i <= 5; i++) {
```

```
        sleep (rand () % 10);
```

```
        pktSize = rand () % 700;
```



```
cout << "In Packet no " << i << " \t packet size =  
" << pktSize ;
```

```
bucketInput (pktSize, op) ; }
```

```
cout << endl ;
```

```
return 0 ;
```

```
}
```

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Pooja

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