5/1/23

☆ Leaky Bucket ☆

Aim: ~~Write a program for distance vector algorithm to find~~ suitable path for ~~transmission~~.

```
#include <bits/stdc++.h>
#include <unistd.h>
using namespace std;
# define bucketSize 500

void bucketInput (int a, int b)
  {

  if ( a > bucketSize)
     cout << "\n\t\t Bucket overflow";
  else
  {
    sleep(5);
    while (a>b)
    {
      cout << "\n\t\t" << b << " bytes outputted.";
      a -= b;
      sleep(5);
    }

    if ( a>0)
    cout << "Last" << a << "bytes sent\t";

  cout << " Bucket Output successful";
  }
}
```

```
int main()
{
    int op, pktsize;
    cout << "Enter output rate: ";
    cin >> op;
    for (int i=1; i<=5; i++)
    {
        sleep(rand()%10);
        pktsize = rand()%701;
        cout << "Packet no" << i << " Packet Size = " << pktsize;
        bucketInput(pktSize, op);
    }
    cout << endl;
    return 0;
}
```

Enter output rate = 50

Packet no 1 Packet Size = 186
50 bytes output.
50 bytes outputted
50 bytes outputted
Total 36 bytes sent.
Packet output successfully.

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Packet no 2 — Packet size = 218
50 bytes outputted.
50 bytes outputted.
50 bytes outputted.
Last 18 bytes sent.
Bucket output successful.

Pack no 3 — Packet size = 537
Bucket Overflow.

Packet no 4 — Packet size = 492
50 bytes outputted.
50 bytes outputted.
50 bytes outputted.
50 bytes outputted
50 bytes outputted
50 bytes outputted
50 bytes outputted
50 bytes outputted
50 bytes outputted
Last 92 bytes sent
Bucket output successful.

Pack no 5 — Packet size = 521
Bucket overflow

12/1/23
Repeat Question