Write a program for congestion control using Leaky bucket algorithm.

```
include <bits/stdc++.h>
using namespace std;
int bucketsize = 512;
void delay (int delay)
{ int now = time(NULL);
int later = now + delay;
while (now <= later) now = time.
}
void bktInput (int a, int b).
{ if (a > bucketsize)
{ cout << "\n\t \t Bucket Overflow"
}
else
{ delay (1);
while (a > b)
{ cout << "\n \t \t" << b << "bytes outputted";
a -= b;
delay (1);
}
if (a > 0)
{.
```

```
cout<<"\n\t\t last "<<a<<"
bytes sent \t";
}
cout<<"\n \t \t Bucket output successful";
}
}

int main()
{
    int op, pkt size;
    randomsize();
cout<<"Enter Output rate:"; cin>>op;
for(int i=1 ; i<=5; i++).
{ delay (0);
pktsize = rand () % 1000;
cout<<"\n Packet no"
bktInput (pktsize, op);
return 0;
}
```