05/01/2023 Write a program for congestion control using Leaky bucket algorithm

```cpp
#include <bits/stdc++.h>
using namespace std;
int main()
{
    int no, storage, output;
    int input, bucketsize, size_left;
    printf("Enter bucket size");
    scanf("%d", &bucketsize);
    printf("Enter output");
    scanf("%d", &output);
    printf("Enter number of packets");
    scanf("%d", &no);
    storage = 0;
    for(int i=0; i<no; i++)
    {
        printf("Enter input packet size");
        scanf("%d", &input);
        size_left = bucketsize - storage;
        if(input <= size_left)
        {
            storage += input;
        }
        else {
            printf("Packet cannot be taken as it is
                    greater than bucket size\n");
        }
        storage -= output;
    }
    printf("The size left is %d", size_left);
    return 0;
}
```

O/P

Enter bucket size 500
Enter output 50
Enter number of packets 5
Enter input packet size 200
Enter input packet size 100
Enter input packet size 600
Packet cannot be taken as it is greater than
bucket size
Enter input packet size 100
Enter input packet size 200
The size left is 300