

5/01/23

2) Leaky Bucket algm  
Program for Congestion Control using leaky bucket algm.

```
#include <stdio.h>
#include <stdlib.h>
int main() {
    int input = 0, i = 0, bucket limit = 400, OP = 1;
    printf("Bucket limit is 400\n");
    printf("Output rate is 50 mpps\n");
    while(OP) {
        printf("Enter input: ");
        scanf("%d", &i);
        if (i <= 400 && input <= 400) {
            input += i;
            input -= 50;
        }
    }
}
```

```

if (input <= 400) {
    printf("qty in bucket : %d\n", input);
}
else if (input > 400)
    printf("Bucket limit Exceeded\n");
else
    printf("Bucket Limit Exceeded\n");

printf("press 1 to add input in 0 to end\n");
scanf("%d", &op);
}
return 0;
}

```

O/P :

Bucket limit is 400

Rate is 50mbps

enter input

300

qty in bucket 250

Press 1 to add input, 0 to end

1

300

Bucket limit exceeded

Press 1 to add input 0 to end

1

enter input

50

qty in bucket 250

Press 1 to add, input 0 to end

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