

# LAB-8

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Leaky bucket

```
#include <stdio.h>
#include <stdlib.h>
```

```
int main()
```

```
{
```

```
    int input = 0;
```

```
    int i = 0, bs;
```

```
    printf("Enter bucket limit\n");
```

```
    scanf("%d", &bs);
```

```
    int op = 1;
```

```
    printf("Bucket limit is %d", bs);
```

```
    printf("Rate is 50 mbps\n");
```

```
    while (op)
```

```
{
```

```
    printf("Enter the input\n");
```

```
    scanf("%d", &i);
```

```
    if (i <= bs && input <= bs)
```

```
{
```

```
        input = input + i;
```

```
        input = input - 50;
```

```
        if (input <= bs)
```

```
{
```

```
            if (input < 0)
```

```
                input = 0;
```

```
            printf("Qty in bucket is %d", input);
```

```
}
```

```
    else if (input > bs)
```

```
{
```

```
        printf("Bucket limit exceeded");
```

```
}
```



}

else

{

printf("Bucket limit exceeded");  
}

printf("press 1 to add input & to end");  
scanf("%d", &op);

}

return 0;

}

```
print("packet size exceeded")
input

enter bucket capacity = 500
enter output rate = 50
enter packet size = 200
current bucket content = 150
enter packet size = 30
current bucket content = 130
enter packet size = 600
packet size exceeded
current bucket content = 130
enter packet size = 700
packet size exceeded
current bucket content = 130
enter packet size =
```