Leaky Bucket

```c
#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 %d", input);
      }
      else if (input > bs)
    { printf ("Bucket limit exceeded");
      }}
      else
      { printf ("Bucket limit exceeded"); }
      printf ("press 1 to add input, 0 to end");
      scanf ("%d", &op);
    }
    return 0;
}
```

Output:-

Bucket limit is 400
Rate is 50 mbps
enter input
300
qty in bucket 250
press 1 to add input 0 to end 1

300

bucket list exceded.
press 1 to add

1

enter input

50

qty in bucket 25.

Nar
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