Leaky Bucket Algorithm

```
#include<stdio.h>
int main(){
  int incoming, outgoing, buck_size, n, store = 0;
  printf("Enter bucket size, outgoing rate and no of inputs: ");
  scanf("%d %d %d", &buck_size, &outgoing, &n);
  while (n != 0) {
     printf("Enter the incoming packet size:");
     scanf("%d", &incoming);
     printf("Incoming packet size %d\n", incoming);
     if (incoming <= (buck_size - store)){</pre>
        store += incoming;
        printf("Bucket buffer size %d out of %d\n", store, buck_size);
     } else {
        printf("Dropped %d no of packets\n", incoming - (buck_size - store));
        printf("Bucket buffer size %d out of %d\n", store, buck_size);
        store = buck_size;
     store = store - outgoing;
     printf("After outgoing %d bytes left out of %d in buffer\n", store, buck_size);
     n--;
}
Output:
```

```
Enter bucket size, outgoing rate and no of inputs: 5 2 2
Enter the incoming packet size : 3
Incoming packet size 3
Bucket buffer size 3 out of 5
After outgoing 1 bytes left out of 5 in buffer
Enter the incoming packet size : 2
Incoming packet size 2
Bucket buffer size 3 out of 5
After outgoing 1 bytes left out of 5 in buffer

...Program finished with exit code 0
Press ENTER to exit console.
```

Observation:

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	Share += incoming;
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	printfl" propped it d no of packets In";
	incoming - (buck-size - shore));
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	of y-dln", store, buck-size);
	Shore = buck_size;
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	Shore = shore - Dubgoing;
	print[1" After outgoing Y-d bytes left out
	of ted in bullerin", shore, buck size);
	n;