Assignment 3

Write a bash program called *producer* and a C program called *consumer.c.* A text-based data file called *storage* initially contains an integer number between 5 and 90.

The producer checks the number in the storage. If the current number plus 8 will be 100 or larger, it will terminate. Otherwise, it will increase the number in the storage by 8 and then call the consumer to continue.

The consumer decreases the number in the storage by 3, and then calls the producer to continue.

Both the producer and the consumer can be the starter.

Sample runs:

```
assignment-producer —
>>>>> more storage
80
>>>>> ./consumer
from consumer: current total is 77
from producer: current total is 85
from consumer: current total is 82
from producer: current total is 90
from consumer: current total is 87
from producer: current total is 95
from consumer: current total is 95
from consumer: current total is 92
from producer: Now I will take a rest!
>>>>>
```

```
assignment-producer -
>>>> ls
assignment-producer.docx
                                producer
consumer
                                storage
consumer.c
>>>> more storage
>>>> ./producer
from producer: current total is 63
from consumer: current total is 60
from producer: current total is 68
from consumer: current total is 65
from producer: current total is 73
from consumer: current total is 70
from producer: current total is 78
from consumer: current total is 75
from producer: current total is 83
from consumer: current total is 80
from producer: current total is 88
from consumer: current total is 85
from producer: current total is 93
from consumer: current total is 90
from producer: current total is 98
from consumer: current total is 95
from producer: Now I will take a rest!
>>>>>
```

Marking scheme:

- 0.5 logically clear
- 0.5 follow all instructions and correctly use exec and shell commands
- 0.5 successfully compile and execute
- 0.5 pass all tests