Bounded buffer problem - Try 1

```
int n = 0; semaphore s = 1; semaphore delay = 0;
void producer()
                             void consumer()
  while (true) {
                               wait(delay);
                               while(true) {
    produce();
    wait(s);
                                 wait(s);
    append();
                                 take();
    n++:
                                 n--;
    if (n==1) {
                                 signal(s);
      signal(delay);
                                 consume();
                                 if (n==0) {
                                   wait(delay);
    signal(s);
```

Bounded buffer problem - Try 2

```
int n = 0; semaphore s = 1; semaphore delay = 0;
void producer()
                             void consumer()
  while (true) {
                               wait(delay);
                               while(true) {
    produce();
    wait(s);
                                 wait(s);
    append();
                                 take();
    n++:
                                 n--;
    if (n==1) {
                                 consume();
      signal(delay);
                                 if (n==0) {
                                   wait(delay);
    signal(s);
                                 signal(s);
```

Bounded buffer problem - Try 3

```
int n = 0; semaphore s = 1; semaphore delay = 0;
void producer()
                             void consumer()
  while (true) {
                               int m;
    produce();
                               wait(delay);
    wait(s);
                               while(true) {
    append();
                                 wait(s);
                                 take():
    n++:
    if (n==1) {
                                 n--;
      signal(delay);
                                 m = n;
                                 signal(s);
                                 consume();
    signal(s);
                                 if (m==0) wait(delay);
```