Task1

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┌──(hypnosphynx㉿hypnosphynx)-[~/Desktop/lab4]
└─$ gcc -o task task1.c -lpthread
task1.c: In function ‘main’:
task1.c:29:5: warning: ‘__builtin_memcpy’ writing 7 bytes into a region of size 6 overflows the destination [-Wstringop-overflow=]
   29 |     strcpy(source, "abcdef");
      |     ^~~~~~~~~~~~~~~~~~~~~~~~
task1.c:12:6: note: destination object ‘source’ of size 6
   12 | char source[BUFLEN];
      |      ^~~~~~
┌──(hypnosphynx㉿hypnosphynx)-[~/Desktop/lab4]
└─$ ./task
0 produced a by Thread 0
1 produced b by Thread 0
2 produced c by Thread 0
3 produced d by Thread 0
4 produced e by Thread 0
0 consumed a by Thread 0
1 consumed b by Thread 0
2 consumed c by Thread 0
3 consumed d by Thread 0
4 consumed e by Thread 0
5 produced f by Thread 0
6 produced a by Thread 0
7 produced b by Thread 0
8 produced c by Thread 0
9 produced d by Thread 0
5 consumed f by Thread 0
6 consumed a by Thread 0
7 consumed b by Thread 0
8 consumed c by Thread 0
9 consumed d by Thread 0
```

Task2

```
┌──(hypnosphynx㉿hypnosphynx)-[~/Desktop/lab4]
└─$ ./task
Farmer 1: Inserts crop R at 0
Farmer 2: Inserts crop W at 1
Farmer 3: Inserts crop P at 2
Farmer 4: Inserts crop S at 3
Farmer 5: Inserts crop M at 4
Shop owner 1: Removes crop R from 0
Shop owner 5: Removes crop W from 1
Farmer 1: Inserts crop R at 0
Shop owner 5: Removes crop P from 2
Shop owner 4: Removes crop S from 3
Farmer 3: Inserts crop W at 1
Shop owner 1: Removes crop M from 4
Shop owner 3: Removes crop R from 0
Farmer 5: Inserts crop P at 2
Shop owner 2: Removes crop W from 1
Shop owner 5: Removes crop P from 2
Farmer 2: Inserts crop S at 3
Farmer 4: Inserts crop M at 4
Farmer 1: Inserts crop R at 0
Farmer 3: Inserts crop W at 1
Farmer 5: Inserts crop P at 2
Shop owner 4: Removes crop S from 3
Farmer 2: Inserts crop S at 3
Shop owner 3: Removes crop M from 4
Shop owner 3: Removes crop R from 0
Farmer 4: Inserts crop M at 4
Shop owner 4: Removes crop W from 1
Shop owner 2: Removes crop P from 2
Farmer 3: Inserts crop R at 0
Shop owner 5: Removes crop S from 3
Shop owner 3: Removes crop M from 4
Farmer 2: Inserts crop W at 1
Shop owner 1: Removes crop R from 0
```

```
Shop owner 1: Removes crop W from 1
Farmer 5: Inserts crop P at 2
Farmer 1: Inserts crop S at 3
Farmer 4: Inserts crop M at 4
Shop owner 3: Removes crop P from 2
Farmer 2: Inserts crop R at 0
Shop owner 3: RNNSM
Farmer 2: RNNSM
Shop owner 1: Removes crop S from 3
Shop owner 2: Removes crop M from 4
Shop owner 1: RNNNN
Farmer 1: Inserts crop W at 1
Farmer 1: RWNNN
Farmer 3: Inserts crop P at 2
Shop owner 2: Removes crop R from 0
Shop owner 5: Removes crop W from 1
Shop owner 5: NNPNN
Farmer 4: Inserts crop S at 3
Farmer 3: NNPSN
Farmer 4: NNPSN
Shop owner 4: Removes crop P from 2
Shop owner 2: Removes crop S from 3
Shop owner 2: NNNNN
Farmer 5: Inserts crop M at 4
Farmer 5: NNNNM
Shop owner 4: Removes crop M from 4
Shop owner 4: NNNNN
```