**Programming Assignment 1 Report**

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Github Project URL: <https://github.com/aalonto/OSP_A1>

1. **Producer Consumer Problem**

In this problem, there are 5 producer threads and 5 consumer threads that are concurrently producing and consuming an item to and from the bucketsl

Looking at the algorithm in-depth,

1. Describe any issues and limitations of your implementation.
2. The program solution implements two algorithms.

a. One from A,B and one from C,D,E 4. For each algorithm

a. Describe in detail how each algorithm works, and how its design avoids things like deadlock, starvation, etc.

i. Ensure that all variables have meaning, and describe these meaningful variables here.  
b. Describe in great detail, 2 real-world industrial / business scenarios, where each algorithm applies. i. Describe how your variables should translate to such an environment. For example, what

would the Barber become?