**Programming Assignment 1 Report**

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

1. **Producer Consumer Problem**

With my final implementation, the program does not encounter any deadlocks and race conditions with a run time of 10 seconds. A screenshot of a part of the terminal output is seen below.

(insert screenshot below)

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?