CSE 311 Exercise 2

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**Read the steps carefully and follow them:**

1. Open the PDF material named 'P\_C problem Preemptive' from your Google

Classroom/Classwork Tab. It is only for the code reference of Producer-Consumer following

which you will solve the next steps.

2. Now, imagine you have to solve a P-C(Producer-Consumer) problem based on CASE 1. The

buffer[n] (where n = 0,1,....,7) was empty at the start, there was no items. No processes were

executed beforehand. So, the value of Global variable was set to COUNT = 0 and Local

variable, IN = 0 and OUT = 0 at that time.

3. But situation changed, execution of processes occured. The buffer[n] (where n = 0, 1,...., 7) is

currently have one item(a variable named X2). Producer process has been executed twice and

Consumer process has been executed only once. The order of execution is:

Producer→Consumer→Producer

4. Now, what will be the resultant value of COUNT, IN and OUT variables after Step 3 for CASE 1?

**Answer:**

Count = 2

IN = 2

OUT = 1