Q1. Does your program output any garbage? If yes, why?

Ans. No, it does not produce any garbage.

Q2. Are all the produced values getting consumed? Check your program for a small count like 20.

Ans. No, not all the produced values are getting consumed. This is because there is a race like condition between the producer function to produce new values of n and the consumer function to use the newly updated value of n. The output of 20 as an argument:

xsh $ prodcons 20

The value of n produced is =1

The value of n produced is =2

The value of n produced is =3

The value of n produced is =4

The value of n produced is =5

xsh $ TThe valuhe of n eproduce d is =6v

The avalue olf n prouduced ies =7

The valoue of nf produc ed is =n8

she value cof n prooduced nis =9

The vaulue of mn produeced is d=10

T he valuie of n sproduce d is =1=1

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is =12 T

The vhalue ofe n prod uced isv =13

aThe vallue of nu produceed is = 14

Thoe valuef of n p roducedn is =15

The cvalue oof n pronduced iss n produce=d is =118

oduced lue of n pr

is =19 T

The vhalue ofe n prod uced isv =20

alue of n consumed is =19

The value of n consumed is =20

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The value of n consumed is =20

Name of all functions used in the producer-consumer problem are as follows:

* shellcmd xsh\_prodcons(int nargs, char \*args[])
* void producer(int count)
* void consumer(int count)

Note the tasks of the group members who developed the various components.

**Task Member User ID**

Created prodcons.h pandeyh

Created xsh\_prodcons.c sshalabh

Created produce.c pandeyh

Created consume.c sshalabh

Made entries in shprototpes.h in include folder sshalabh

Made entries in shell.c in include folder pandeyh

Creation of Test Cases pandeyh

Testing and Execution of code sshalabh

Bug Fixing sshalabh

Report Creation pandeyh