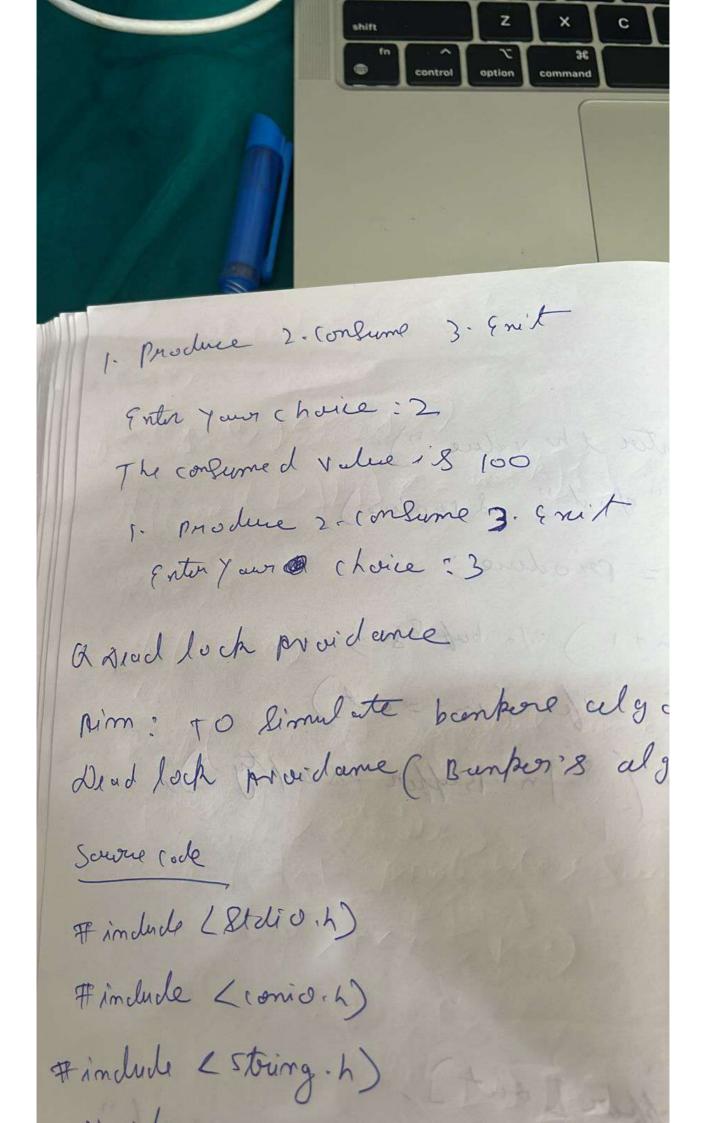
Q Rim: To write a c program to simulus producer - (onlumer pro blom using Semaphor L Findude ( ( dio. h) pu int main () int buffor [10], buf like in out resoluce consume, chaire = 0; in = 0; out = 0; buflist = 10; while (chaire !=3) printle [" |n 1. Produce It 2. consume 1+ 3. Emit 10): printh (" | Enter your choice!"). Scanf ("dod" & choice); Soutch thouse Smitch (chaire) case 1: ih ((in +i) v/o bufsize = = out print f ( 1 m Buffer 18 full 2) else

break; print (" (n Enter the value "); Scarfe ("of od"; & resolute); huffer [in] = produce; in = (in+1) of but like; ( cell 2: 1/2 ( in = = out ) Pount (" In Buffer is empty "); consume = buffer I out ]; print [ In The consumed value is of I aut = ( out + 1) of o bubbise; brent; out put 1. Produce 2. consume 3. Exit goten your (hoise: > Buffer is Empty



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                                                                                             ≥ Terminal
                        printf("\nBuffer is Full");
                                                                                              1. Produce 2. Consume 3. Exit
                                                                                              Enter your choice: 2
                                                                                              Buffer is Empty
                         scanf("%d", &produce);
                                                                                              1. Produce 2. Consume 3. Exit
                        buffer[in] = produce;
                                                                                              Enter your choice: 1
                        in = (in + 1) % bufsize;
                                                                                              Enter the value: 100
                                                                                              1. Produce 2. Consume 3. Exit
                                                                                              Enter your choice: 2
                                                                                              The consumed value is 100
                                                                                               1. Produce 2. Consume 3. Exit
                                                                                              Enter your choice: 3
                     printf("\nBuffer is Empty");
else {
                        consume = buffer[out];
                        printf("\nThe consumed value is %d", consume);
                        out = (out + 1) % bufsize;
                     printf("\nInvalid choice. Please enter a valid choice.");
```

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javascript:void(0)