

OnlineGDB beta
online compiler and debugger for c/c++

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```
main.c
9  #include <stdio.h>
10 #include <stdlib.h>
11 int mutex = 1;
12 int full = 0;
13 int empty = 10, x = 0;
14 void producer()
15 {
16     --mutex;
17     ++full;
18     --empty;
19     x++;
20     printf("\nProducer produces "
21           "item %d",
22           x);
23     ++mutex;
24 }
25 void consumer()
26 {
27     --mutex;
28     --full;
29     ++empty;
30     printf("\nConsumer consumes "
31           "item %d",
32           x);
33     x--;
34     ++mutex;
35 }
36 int main()
37 {
38     int n, i;
39     printf("\n1. Press 1 for Producer"
40           "\n2. Press 2 for Consumer"
41           "\n3. Press 3 for Exit");
```

```
40     "\n2. Press 2 for Consumer"
41     "\n3. Press 3 for Exit");
42     #pragma omp critical
43     for (i = 1; i > 0; i++) {
44         printf("\nEnter your choice:");
45         scanf("%d", &n);
46         switch (n) {
47             case 1:
48                 if ((mutex == 1)
49                     && (empty != 0)) {
50                     producer();
51                 }
52             else {
53                 printf("Buffer is full!");
54             }
55             break;
56             case 2:
57                 if ((mutex == 1)
58                     && (full != 0)) {
59                     consumer();
60                 }
61             else {
62                 printf("Buffer is empty!");
63             }
64             break;
65             case 3:
66                 exit(0);
67             break;
68         }
69     }
70 }
71
72
```

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




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Language C  

input

```
1. Press 1 for Producer
2. Press 2 for Consumer
3. Press 3 for Exit
Enter your choice:1

Producer produces item 1
Enter your choice:3

...Program finished with exit code 0
Press ENTER to exit console.
```