

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

Welcome, **yamini** 📌

multi threading

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main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <pthread.h>
4 #include <semaphore.h>
5 #include <unistd.h>
6
7 int sum = 0;
8 sem_t mutex;
9
10 void *add(void *arg){
11     int *ptr = (int *) arg;
12     while(*ptr != -1){
13         sem_wait(&mutex);
14         sum += *ptr;
15         printf("value: %d sum %d\n", *ptr, sum );
16         sem_post(&mutex);
17         ptr++;
18     }
19     return NULL;
20 }
21
22 int main(int argc, char *args[]){
23     int A[4] = {1,2,3, -1};
24     int B[4] = {4,2,6, -1};
25     pthread_t t_a, t_b;
26     sem_init(&mutex, 0, 1);
27     pthread_create(&t_a, NULL, add, A);
28     pthread_create(&t_b, NULL, add, B);
29
30     pthread_join(t_a, NULL);
31     pthread_join(t_b, NULL);
32     printf("Total: %d\n", sum);
33     return 0;
34 }
```

input

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



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Language C  

main.c

```
8
9 #include <stdio.h>
10 #include <stdlib.h>
11 #include <pthread.h>
12 #include <semaphore.h>
13 #include <unistd.h>
```

input

```
value: 4 sum 4
value: 2 sum 6
value: 6 sum 12
value: 1 sum 13
value: 2 sum 15
value: 3 sum 18
Total: 18

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