

C:\Users\janal\OneDrive\Documents\OS-12.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug OS-9.cpp OS-10.cpp OS-11.cpp OS-12.cpp

```
55 }
56
57 int main() {
58     pthread_t thread_id[N];
59     int philosophers[N];
60
61     sem_init(&mutex, 0, 1);
62
63     for (int i = 0; i < N; i++) {
64         sem_init(&S[i], 0, 0);
65         philosophers[i] = i;
66     }
67
68     for (int i = 0; i < N; i++) {
69         pthread_create(&thread_id[i], NULL, philosopher, &philosophers[i]);
70         printf("Philosopher %d is Thinking ??\n", i + 1);
71     }
72
73     for (int i = 0; i < N; i++) {
74         pthread_join(thread_id[i], NULL);
75     }
76
77     return 0;
78 }
79
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\janal\OneDrive\Documents\OS-12.exe
- Output Size: 188.2255859375 KiB
- Compilation Time: 0.25s

Line: 79 Col: 1 Sel: 0 Lines: 79 Length: 1734 Insert Done parsing in 0.016

C:\Users\janal\OneDrive\Documents\OS-12.exe

Philosopher 2 is Thinking ??
Philosopher 3 is Eating ??
Philosopher 5 is Thinking ??
Philosopher 1 is Eating ??
Philosopher 4 is Hungry ??
Philosopher 2 is Hungry ??
Philosopher 3 is Thinking ??
Philosopher 4 is Eating ??
Philosopher 5 is Hungry ??
Philosopher 1 is Thinking ??
Philosopher 2 is Eating ??
Philosopher 3 is Hungry ??
Philosopher 4 is Thinking ??
Philosopher 5 is Eating ??
Philosopher 2 is Thinking ??
Philosopher 3 is Eating ??
Philosopher 5 is Thinking ??
Philosopher 1 is Eating ??
Philosopher 4 is Hungry ??
Philosopher 2 is Hungry ??
Philosopher 3 is Thinking ??
Philosopher 4 is Eating ??
Philosopher 5 is Hungry ??
Philosopher 1 is Thinking ??
Philosopher 2 is Eating ??
Philosopher 3 is Hungry ??
Philosopher 4 is Thinking ??
Philosopher 5 is Eating ??

23:15
30-09-2025