به نام خدا



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Readers Writers Problem:

```
rezaee_98411387@98411387:~/Desktop$ gcc Readers_Writers.c -pthread
rezaee_98411387@98411387:~/Desktop$ ./a.out
Reader 5: read count as 1
Reader 6: read count as 1
Reader 7: read count as 1
Reader 7: read count as 1
Reader 8: read count as 1
Reader 8: read count as 1
Reader 9: read count as 1
Reader 9: read count as 1
Reader 10: read count as 1
Writer 2: modified count to 2
Writer 1: modified count to 4
Reader 1: read count as 4
Writer 5: modified count to 8
Writer 4: modified count to 16
Writer 3: modified count to 32
```

Dining Philosophers Problem: