

Outputs after running: python3 critical_path_method

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EXAMPLE 1: Simple Project
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--- METHOD 1: Using Node Class ---
=====
CRITICAL PATH METHOD RESULTS (Using Node Class)
=====

Minimum Completion Time: 12

Critical Tasks: A, C, E, F

Detailed Task Information:
-----
Task A: Time=3, ES=0, EF=3, LS=0, LF=3, Slack=0, Critical=True
Task B: Time=2, ES=0, EF=2, LS=5, LF=7, Slack=5, Critical=False
Task C: Time=4, ES=3, EF=7, LS=3, LF=7, Slack=0, Critical=True
Task D: Time=5, ES=3, EF=8, LS=5, LF=10, Slack=2, Critical=False
Task E: Time=3, ES=7, EF=10, LS=7, LF=10, Slack=0, Critical=True
Task F: Time=2, ES=10, EF=12, LS=10, LF=12, Slack=0, Critical=True
=====

--- METHOD 2: Using Arrays ---
=====
CRITICAL PATH METHOD RESULTS (Using Arrays)
=====

Minimum Completion Time: 12

Topological Order: A -> B -> C -> D -> E -> F

Critical Tasks: A, C, E, F

Detailed Task Information:
-----
Task    Time   ES    EF    LS    LF    Slack  Critical
-----
A        3      0     3     0     3     0      Yes
B        2      0     2     5     7     5      No
C        4      3     7     3     7     0      Yes
D        5      3     8     5     10    2      No
E        3      7     10    7     10    0      Yes
F        2     10    12    10    12    0      Yes
=====
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--- METHOD 1: Using Node Class ---

=====
CRITICAL PATH METHOD RESULTS (Using Node Class)
=====

Minimum Completion Time: 15

Critical Tasks: Start, Task1, Task3, Task5, End

Detailed Task Information:
-----
Task Start: Time=0, ES=0, EF=0, LS=0, LF=0, Slack=0, Critical=True
Task Task1: Time=4, ES=0, EF=4, LS=0, LF=4, Slack=0, Critical=True
Task Task2: Time=3, ES=0, EF=3, LS=1, LF=4, Slack=1, Critical=False
Task Task3: Time=6, ES=4, EF=10, LS=4, LF=10, Slack=0, Critical=True
Task Task4: Time=2, ES=4, EF=6, LS=8, LF=10, Slack=4, Critical=False
Task Task5: Time=5, ES=10, EF=15, LS=10, LF=15, Slack=0, Critical=True
Task End: Time=0, ES=15, EF=15, LS=15, LF=15, Slack=0, Critical=True
=====

--- METHOD 2: Using Arrays ---

=====
CRITICAL PATH METHOD RESULTS (Using Arrays)
=====

Minimum Completion Time: 15

Topological Order: Start -> Task1 -> Task2 -> Task4 -> Task3 -> Task5 -> End

Critical Tasks: Start, Task1, Task3, Task5, End

Detailed Task Information:
-----


| Task  | Time | ES | EF | LS | LF | Slack | Critical |
|-------|------|----|----|----|----|-------|----------|
| Start | 0    | 0  | 0  | 0  | 0  | 0     | Yes      |
| Task1 | 4    | 0  | 4  | 0  | 4  | 0     | Yes      |
| Task2 | 3    | 0  | 3  | 1  | 4  | 1     | No       |
| Task3 | 6    | 4  | 10 | 4  | 10 | 0     | Yes      |
| Task4 | 2    | 4  | 6  | 8  | 10 | 4     | No       |
| Task5 | 5    | 10 | 15 | 10 | 15 | 0     | Yes      |
| End   | 0    | 15 | 15 | 15 | 15 | 0     | Yes      |


=====
```