1. Use the backflow algorithm to determine the critical times for each vertex. Fill in the correct critical time for each vertex in the brackets next to each vertex.

2. What is the critical time for vertex D?  

3. What is the critical path for vertex D? 

4. What is the project critical time? 

5. What is the project critical path? 

6. Create a critical-time priority list for this project. 

7. What is the optimal time for completing this project with \( N = 2 \) processors if precedence relations are ignored? 

8. Schedule the project with \( N = 2 \) processors using the critical-time algorithm. Identify the finishing time (FIN) or optimal time (OPT) if applicable.

9. Explain why the schedule obtained is optimal.