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Mohammed Abu-Hadhoud
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لتعم الفائدة للجميع وانقاذ الاف الناس من التشتت وجزاكم الله خيرا
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هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي
على اقل من 20٪ مما يتم شرحه في الفيديوهات
الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات
وخبرات كثيره
يجب عليك مشاهدة فيديو الدرس كاملا
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Algorithms & Problem Solving
Level 6
Shortest Path
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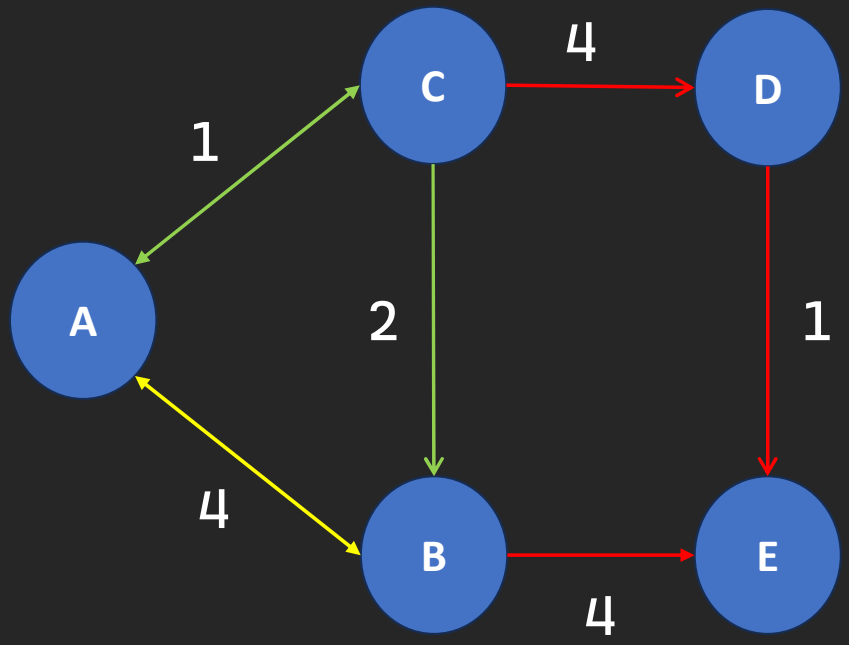
Shortest Path: A ➔ B



A ➔ B:

Path 1: A ➔ B = 4
Path 2: A ➔ C ➔ B = 1 + 2 = 3

Shortest is Path 2 = 3.

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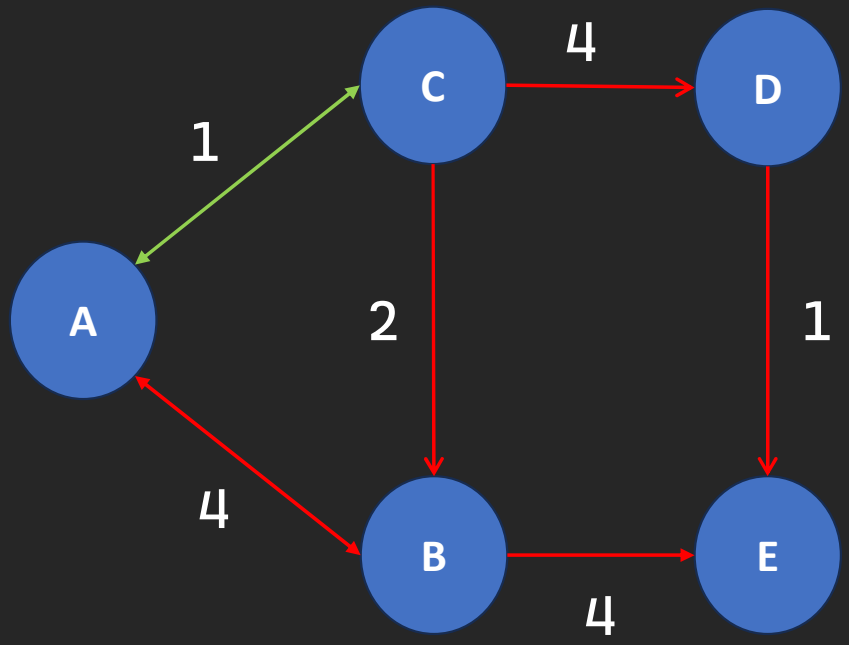
Shortest Path: A ➔ C



A ➔ C:

Path 1: A ➔ C = 1

Shortest is Path 1 = 1.

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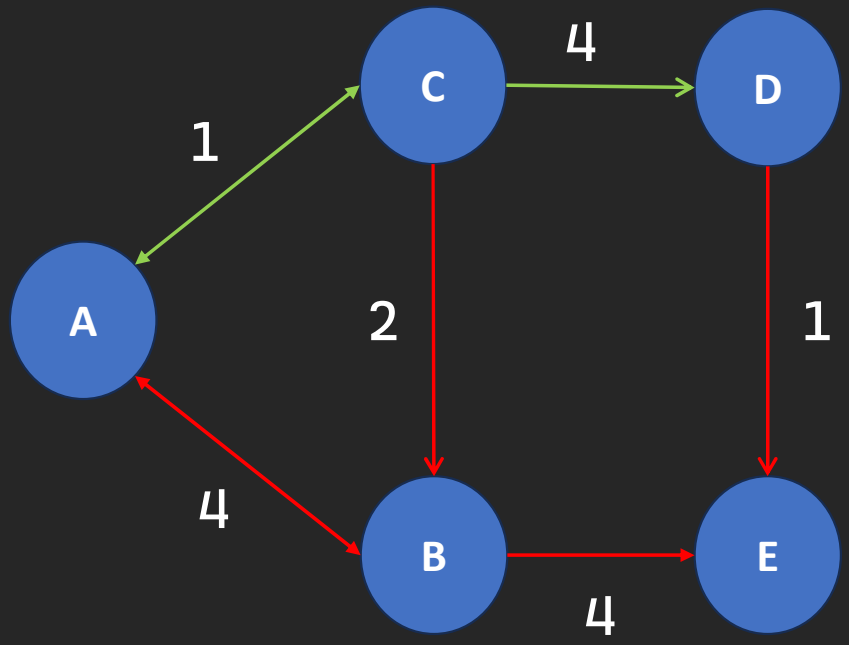
Shortest Path: A ➔ D



A ➔ D:

Path 1: A ➔ C ➔ D = 1 + 4 = 5

Shortest is Path 1 = 5.

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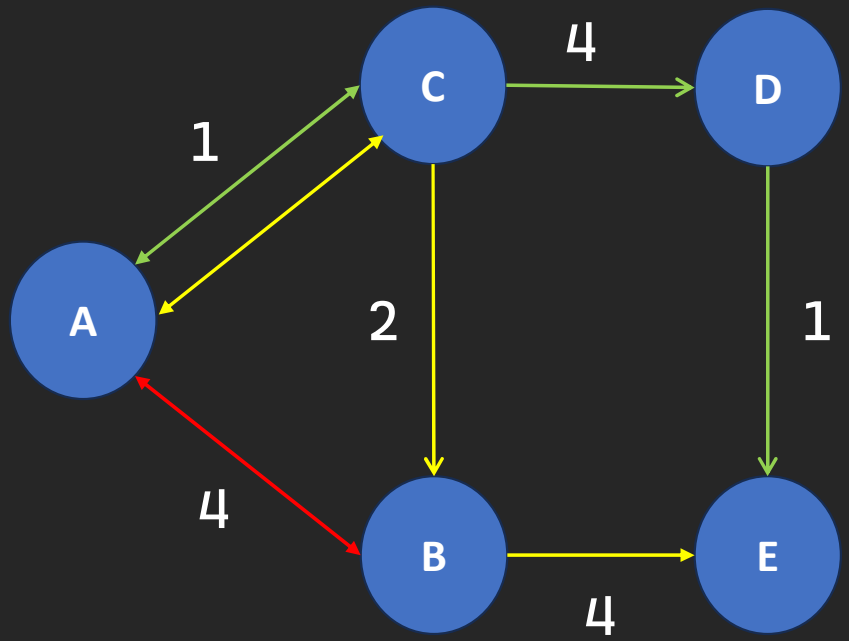
Shortest Path: A ➔ E



A ➔ E:

Path 1: A ➔ C ➔ D ➔ E

1 + 4 + 1 = 6

Path 2: A ➔ C ➔ B ➔ E

1 + 2 + 4 = 7

Shortest is Path 1 = 6.

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Overview

- The shortest path problem is a fundamental concept in graph theory.
- It involves finding the shortest path between nodes in a graph.

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What is the Shortest Path Problem?

- The shortest path problem seeks to find the minimum-cost path between two nodes in a graph.

- Common applications include:
  - GPS navigation systems.
  - Network routing.
  - Game development (pathfinding for characters).

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