- the problem is NP-tland then convert the Exponential time complexity to the Polynomial time complexity.

 Also compare the deterministic and non-deterministic algorithm with the polynomial time execution.
- A) The Coin Denomination problem (COP) is NP-Hard problem by reducing NP-Hard problems like subset sum to it. Converting exponential time to polynomial time is not currently possible unless P=NP, an unsolved question. Deterministic algorithm solve problems in polynomial—time with clear steps, while non-deterministic algorithms can verify Solutions quickly but may not solve them efficiently. Approximation methods are of-cen used for NP-Hard problems. Deterministic algorithm guarantee exact results, but non-deterministic ones rely on verification.
- the problem is NP-Hard, then convert the Exponenti -al time complexity the polynomial time complexity Also campare the deterministic and non-aleterministic algorithms with Playnomial time execution.
- A) The NCDP problem is NP-hard as it can be reduced from a known NP-hard problem like Vertex Couler. To convert its Exponential time

wil rold supructed smell Complexity to polynomial, approximation algorithms or heuristics can be used to find near-optimal Solutions efficiently. Deterministic algorithms yield the same output for the same input, ensuring predictability, while non-deterministic algorithms explore multiple paths simultaneously. Deterministic algorithm usually have predictable execution times whereas mon-deterministic algorithm are favored -for reliability while non-determinishe ones are Important in Complexity. theory

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