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Summary: Lecture 8

Summary for the chapters *9.3* and *9.4*. [1]

Title
Content

IndependentSet

IndependentSet
INDEPENDENTSET Input: An undirected Graph G and a number k. Question: Is there a set of k nodes with no edges in between? (INDEPENDENTSET)

INDEPENDENTSET is NP-complete.

Proof idea:

- triangle construction

HamiltonPath is NP-complete

HAMILTONPATH is NP-complete.

Proof idea:

- Another reduction from 3SAT

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TODO
Questions:

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References

[1] Christos H. Papadimitriou. *Computational Complexity*. Addison-Wesley Publishing Company, 1994.