Summary: Lecture 9

Summary for the chapter 10.3. [1]

Function problems

Title

Content

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TODO

Questions:

FP and FNP

 \mathbf{FP}

Content

FNP

Content

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TODO

Questions:

Reductions between function problems

Title

Content

- translate answers back to the original problem
- reduction is a pair (R, S):
 - -R translates input x to input x'
 - -S translates result y' to result y
- A' is B there (A' does not exist on the slides)

TODO

Questions:

How to prove FP = FNP?

 \mathbf{Title}

Content

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TODO

Questions:

Computing a satisfying assignment bit by bit Title Content TODO Questions: If FP=FNP optimuzation problems become easy \mathbf{Title} ContentTODO Questions: **Another argument** Title ContentTODO Questions: **Total FNP** Title Content

TODO Questions:

References

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