

Design and Analysis of Algorithms (XIV)

Conclusion

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The EXAM will be given on **June. 18!**

Skeleton of This Lecture

NP problem

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Approximation Algorithms

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LP based algorithms: Rounding, Primal-Dual

- **Requirement:** LP representation of a problem.
- **Requirement:** Basic solution ability of rounding, randomized rounding, derandomization, Primal and Dual methods.
- **Requirement:** derandomization.

Randomized Algorithms

Probability basics

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- **Requirement:** probability, expectation, variance, linearity of expectation