# Analysis of Algorithms - Home Work $2\,$

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Textbook [Kleinberg & Tardos] Chapter 3, page 107, problem #6.

1 QUESTION 1 2

Textbook [Kleinberg & Tardos] Chapter 3, page 107, problem #8.

2 QUESTION 2 3

Textbook [Kleinberg & Tardos] Chapter 3, page 107, problem #12.

3 QUESTION 3 4

Textbook [Kleinberg & Tardos] Chapter 4, page 190, problem #8.

4 QUESTION 4 5

Textbook [Kleinberg & Tardos] Chapter 4, page 190, problem #21.

5 QUESTION 5

Textbook [Kleinberg & Tardos] Chapter 4, page 190, problem #27.

6 QUESTION 6 7

#### References

[1] Binomial Theorem, https://en.wikipedia.org/wiki/Binomial\_theorem

[2] Young Tableau, https://en.wikipedia.org/wiki/Young\_tableau

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