

**Problem Set 3**  
CPSC 689 Randomized Algorithms  
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**The assignment is due next Thursday, before class.**

**Solve** the following exercises in [MU]

1. Exercise 2.6
2. Exercise 2.17
3. Exercise 2.18
4. Exercise 2.32

Typeset your solution in  $\text{\LaTeX}$  or write very neatly!

You should have read Chapters 1 and 2 in our textbook; solve as many exercises as you can. Good sources for such exercises are also [Grimmett and Stirzaker, *One Thousand Exercises in Probability*, 2nd edition, Oxford University Press, 2001] and [Capinski and Zastawniak, *Probability Through Problems*, Springer, 2000].