

# CSE 6740 Homework 1

Anqi Wu, Spring 2024

Deadline: Feb. 06 Tuesday, 9:30 am

- There are 2 sections in gradescope: Homework 1 and Homework 1 Programming. Submit your answers as a PDF file to Homework 1 (including report for programming) and also submit your code in a zip file to Homework 1 Programming.
- All Homeworks are due by the beginning of class. Homework is penalized by 20% for each day that it is late (this applies additively, meaning that no credit is gained after 5 late days).
- We strongly encourage the use of LaTeX for your submission. Unreadable handwriting is subject to zero credit.
- Explicitly mention your collaborators if any.
- Recommended reading: PRML Section 9.1, 12.1
- Python and Matlab are allowed.

## 1 Probability [17 pts]

1. We select a positive integer  $I$  with  $P\{I = n\} = \frac{1}{2^n}$ . If  $I = n$ , we toss a coin with probability of heads  $p = e^{-n}$ . What is the probability that the result is heads? [4 pts]
2. In a network of computers, 15% of the computers are infected by a virus  $V$ . An anti-virus scan has the property that if a computer is infected with  $V$ , the scan will detect the infection to be positive 95% of the time. However, if the computer is not infected, the scan will still detect the infection to be positive 10% of the time. All the computers which are detected to be infected, are applied with a corrective software-patch, which causes corruption of computers' files 20% of the time. Given that a computer picked at random has corrupted files, what is the probability that it was actually infected with the virus  $V$  to begin with? [4 pts]
3. Charlie has a choice to take a bus or walk to attend CSE6740 lecture. If he walks, he gets late with a probability of  $\frac{1}{3}$ . However, if he takes a bus, he gets late only with a probability of  $\frac{1}{6}$ . Further, if he gets on time, he always keeps the same mode of travel the day after, whereas he always changes when he gets late. Let  $p$  be the probability that Charlie walks on the first day.
  - (a) What is the probability that Charlie walks on the  $n^{\text{th}}$  day? [4.5 pts]
  - (b) What is the probability that Charlie gets late on the  $n^{\text{th}}$  day? [4.5 pts]

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Wang, Zhiyong Peng, Mohamed A.  
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