

UNIVERSITY OF TORONTO
Faculty of Arts and Science

CSC 148 Midterm, Winter 2022

Duration — 110 minutes

Aids allowed:

You may refer to course materials we have provided and your own personal notes.

You must not use any other resources (e.g., websites or textbooks).

- Each question is in a separate file that you will download.
- For every question, you will edit and submit a file we provide to you.
- Hand in each question as you complete it! You can hand in a revised solution later during the test if needed.
- There is a 10-minute grace period during which you can hand in your work with no deduction. Afterwards, there will a deduction of 1% per minute for the next 5 minutes and 5% per minute for the next 5 minutes. The **last file you submit** determines any late penalty that will be applied. The late penalty will be applied **to your whole test**.

Late policy

last file submitted	penalty on whole test
up to 10 minutes late	none
up to 11 minutes late	1%
up to 12 minutes late	2%
up to 13 minutes late	3%
up to 14 minutes late	4%
up to 15 minutes late	5%
up to 16 minutes late	10%
up to 17 minutes late	15%
up to 18 minutes late	20%
up to 19 minutes late	25%
up to 20 minutes late	30%
over 20 minutes late	not accepted

Marking Scheme

Q1 (short answer: miscellaneous)	_____ / 5
Q2 (short answer: memory model)	_____ / 7
Q3 (OOP)	_____ / 12
Q4 (ADTs)	_____ / 5
Q5 (Linked lists)	_____ / 6
TOTAL	_____ / 35