UNIVERSITY OF TORONTO
Faculty of Arts and Science

April 2018 Examinations

CSC 148H1S
Duration — 3 hours
No aids allowed.

Student Number: └─┴─┴─┴─┴─┴─┴─┴─┴─┴─┴─┴─┘

Last Name: _____

First Name: _____

*Do **not** turn this page until you have received the signal to start.*
(In the meantime, please fill out the identification section above,
and read the instructions below.)

This exam consists of 7 questions on 16 pages (including this one). *When you receive the signal to start, please make sure that your copy of the exam is complete.*

Please answer questions in the space provided. If you need additional space, clearly indicate on the question page where to find your answer.

You will earn 20% for any question you leave blank or write "I cannot answer this question" on. You might earn substantial part marks for writing down the outline of a solution and indicating which steps are missing. You may use helper functions, if you wish, provided you define them on this paper.

You must achieve 40% of the marks on this final exam to pass this course.

There is a Python API at the end of this exam.

1: _____/12

2: _____/10

3: _____/ 6

4: _____/ 8

5: _____/ 5

6: _____/ 5

7: _____/ 8

TOTAL: _____/54

Good Luck!