UNIVERSITY OF TORONTO  
Faculty of Arts and Science  
April 2013 Examinations  
CSC 104H1F  
Duration — 3 hours

ALLOWED AIDS: one 8.5”x11” handwritten aid sheet (both sides)

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.)

# 1: _____/10  
# 2: _____/ 9  
# 3: _____/10  
# 4: _____/10  
# 5: _____/10  
# 6: _____/10  
# 7: _____/10  
# 8: _____/10  
# 9: _____/10  
# 10: _____/ 5  

TOTAL: _____/94

This exam consists of 10 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. You will earn 20% for 
any question you leave blank or write “I cannot answer this question,” 
on. You may earn substantial partial marks for writing down the outline 
of a solution and indicating which steps are missing.

Write your student number at the bottom of pages 2-16 of this exam.

Good Luck!