

Exam 27-2

CSC165H1S , Winter 2017

Midterm 1

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1. [2 marks] Here is question 1.



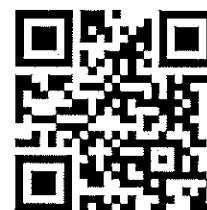
Exam 27-6

CSC165H1S , Winter 2017

Midterm 1

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Use this page for rough work. If you want work on this page to be marked, please indicate this clearly *at the location of the original question.*



Exam 27-7

CSC165H1S , Winter 2017

Midterm 1

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Use this page for rough work. If you want work on this page to be marked, please indicate this clearly *at the location of the original question.*



Exam 27-4

CSC165H1S , Winter 2017

Midterm 1

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4. [4 marks] Here is a multi-page question.



Exam 44-4

CSC165H1S , Winter 2017

Midterm 1

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4. [4 marks] Here is a multi-page question.



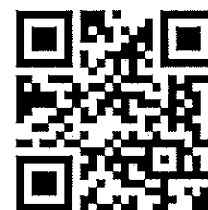
Exam 29-6

CSC165H1S , Winter 2017

Midterm 1

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Exam 44-5

CSC165H1S , Winter 2017

Midterm 1

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Question 4 continued...

UNIVERSITY OF TORONTO  
Faculty of Arts and Science

Midterm 1  
CSC165H1S

Duration: 50 minutes  
Instructor(s): David Liu, Toniann Pitassi  
No Aids Allowed



Exam 44-1

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Name:

Student Number:

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Please read the following guidelines carefully!

- Please write your name on both the front and back of this exam.
  - This examination has 4 questions. There are a total of 8 pages, **DOUBLE-SIDED**.
  - Answer questions clearly and completely, with justifications unless explicitly asked not to.
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  - You may **not** use induction for your proofs on this midterm.
- 

Take a deep breath.

This is your chance to show us

How much you've learned.

We **WANT** to give you the credit

That you've earned.

A number does not define you.

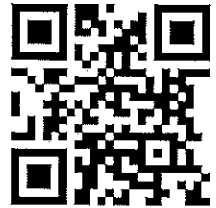
Good luck!



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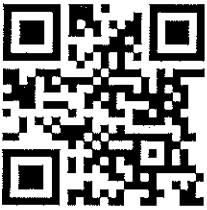
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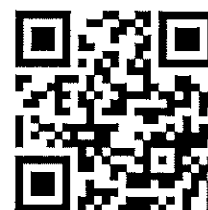
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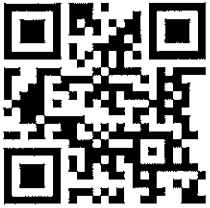
Exam 29-5

CSC165H1S , Winter 2017

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Question 4 continued...



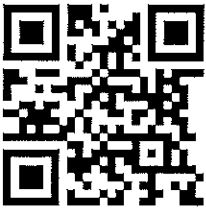
Exam 44-6

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Exam 27-8

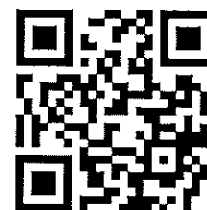
CSC165H1S , Winter 2017

Midterm 1

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Name:

Question	Grade	Out of
Q1		2
Q2		2
Q3		3
Q4		4
<b>Total</b>		11



Exam 27-3

CSC165H1S , Winter 2017

Midterm 1

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2. [2 marks] Here is question 2.

3. [3 marks] Here is question 3.



Exam 27-5

CSC165H1S , Winter 2017

Midterm 1

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Question 4 continued...



Exam 29-3

CSC165H1S , Winter 2017

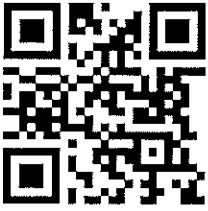
Midterm 1

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Exam 29-8

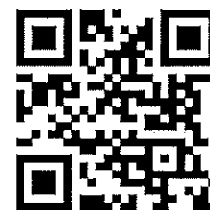
CSC165H1S , Winter 2017

Midterm 1

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Name:

Question	Grade	Out of
Q1		2
Q2		2
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Exam 29-7

CSC165H1S , Winter 2017

Midterm 1

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Exam 44-8

CSC165H1S , Winter 2017

Midterm 1

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Name:

Question	Grade	Out of
Q1		2
Q2		2
Q3		3
Q4		4
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Exam 29-4

CSC165H1S , Winter 2017

Midterm 1

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UNIVERSITY OF TORONTO  
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CSC165H1S

Duration: 50 minutes  
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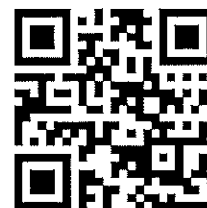
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Exam 44-3

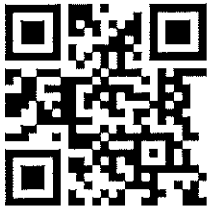
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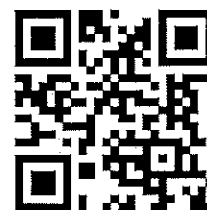
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1. [2 marks] Here is question 1.



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