

WELCOME

CSCA48H3S - Introduction to Computer Science II

TUT 0006

TA: Andrew Wang

Email: andrewpy.wang@mail.utoronto.ca

Website: <http://individual.utoronto.ca/andrewwang/a48/>

Congratulations!!

You have survived CSCA08!!

WHO AM I?

TA: Andrew Wang

Email: andrewpy.wang@mail.utoronto.ca

3rd year undergraduate

(Seriously, I'm not a high school student)

Co-op Computer Science Specialist Program,
Entrepreneurship Stream

Completed 2 co-op work terms, currently on the 3rd work term

2nd year being a TA at CMS

ADMIN STUFF

Check your registered tutorial section (TUT 0006)

Use resources when you get stuck

- Piazza forum
- Nick's office hour: TBA

Practical Sessions:

- Mon, Wed, Fri – 4pm to 7pm @BV-471

FYI, my practical section is Fri 6pm to 7pm

MATERIALS TO BE COVERED...

Stack & Queue

UML Diagrams

More OOP

Recursion

More Recursion...

... and even more Recursion...

Linked list

Trees

Program Complexity

CAUTIONS!

Don't cheat!

Seriously, do NOT cheat!!!

Submit your work BEFORE deadline

- Auto-marker is VERY VERY picky
 - 5:00:00 pm != 5:00:01 pm
 - Ex1.py != ex1.py
 - my_function() != my_func()

ADTs

- Quick recap!
- Stack
- Queue

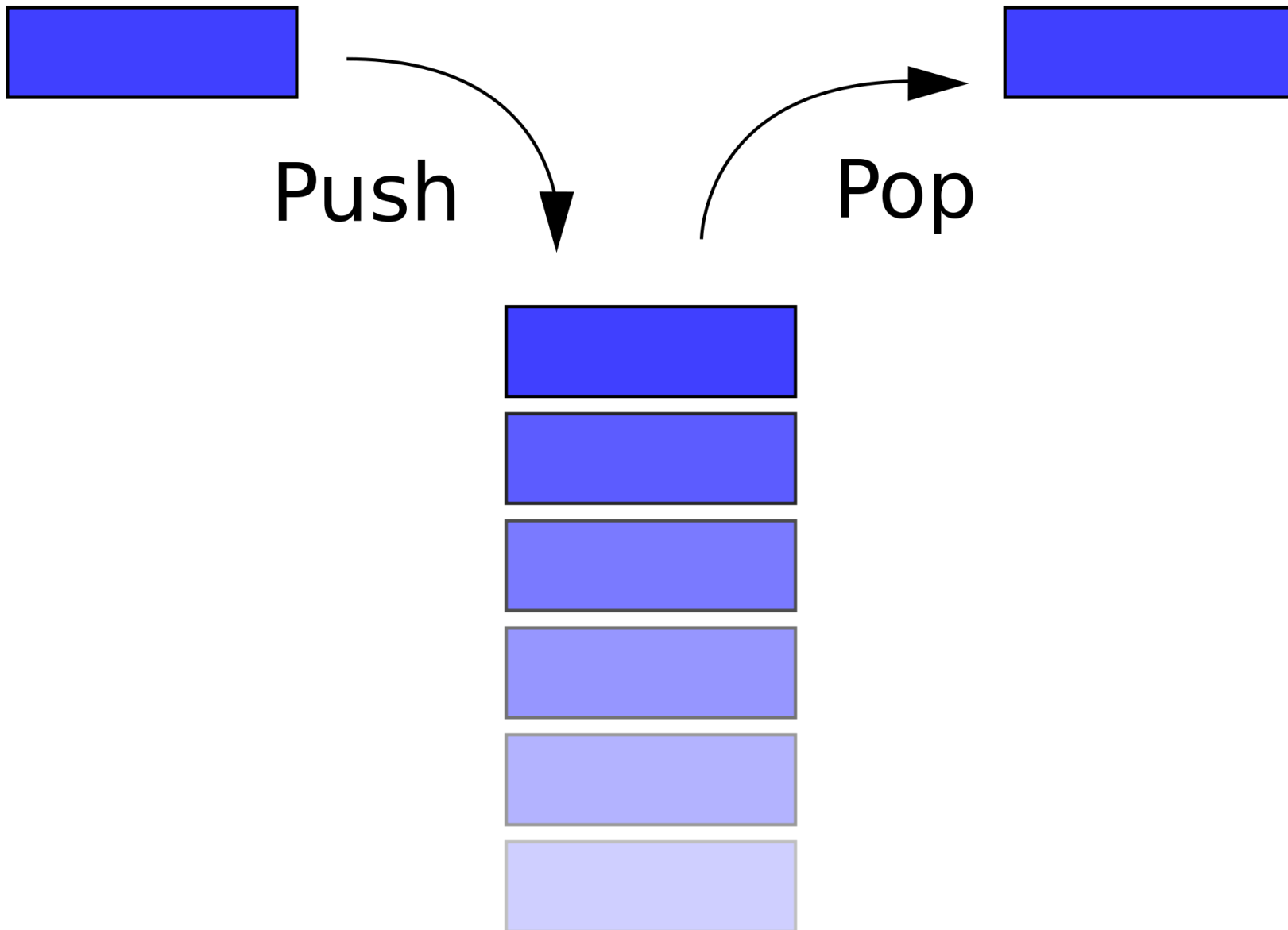
ADTs

Stack

ADTs

Stack LIFO (Last In First Out)





ADTs

Queue

ADTs

Queue FIFO (First In First Out)



[Welcome](#)

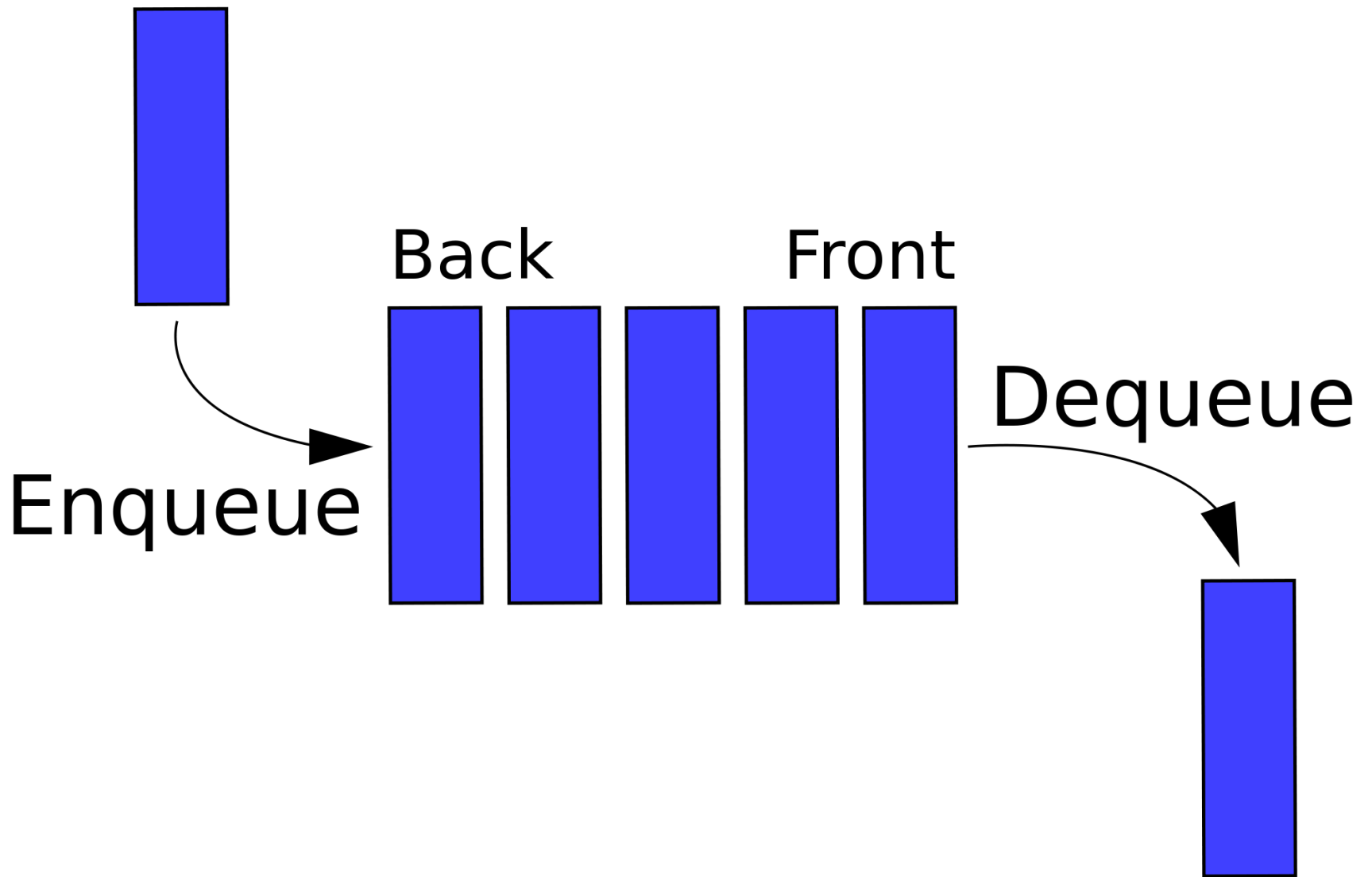
[Introduction](#)

[Admin](#)

[ADT](#)

[Demo](#)

[Reminder](#)



LET'S PLAY AROUND!

REVIEW: DECIMAL TO BINARY

Convert 156 to binary.

REVIEW: DECIMAL TO BINARY

The image shows a spiral-bound notebook with a green cover. On the white paper, the decimal number 156 is converted to binary using a series of division-by-2 steps. The divisions are written vertically on the left, and the remainders are listed on the right. A red arrow points upwards next to the remainders, indicating they should be read from bottom to top. The final result is boxed in red.

2)156
2)78
2)39
2)19
2)9
2)4
2)2
2)1

Remainder:
0
0
1
1
1
0
0
1

156₁₀ = 10011100₂

wikiHow

REMINDERS

Exercise 0 dues Friday @5:00pm

The automarker will be PICKY

- 5:00:01 is not 5pm, it will count it as late!
- Ex0.py is not ex0.py
- my_function() is not My_function()

Let me know if you have issues logging into MarkUs