

CSE 101 2-10-22

1

• Pass: ext. one last day

continue . . .

Queue.h

Queue.cpp

QueueTest.cpp

Makefile

Use this pointer

In a member fn

~~*(this.)~~ (*this).

this →

In some calling function

A.member-fcn(-----);

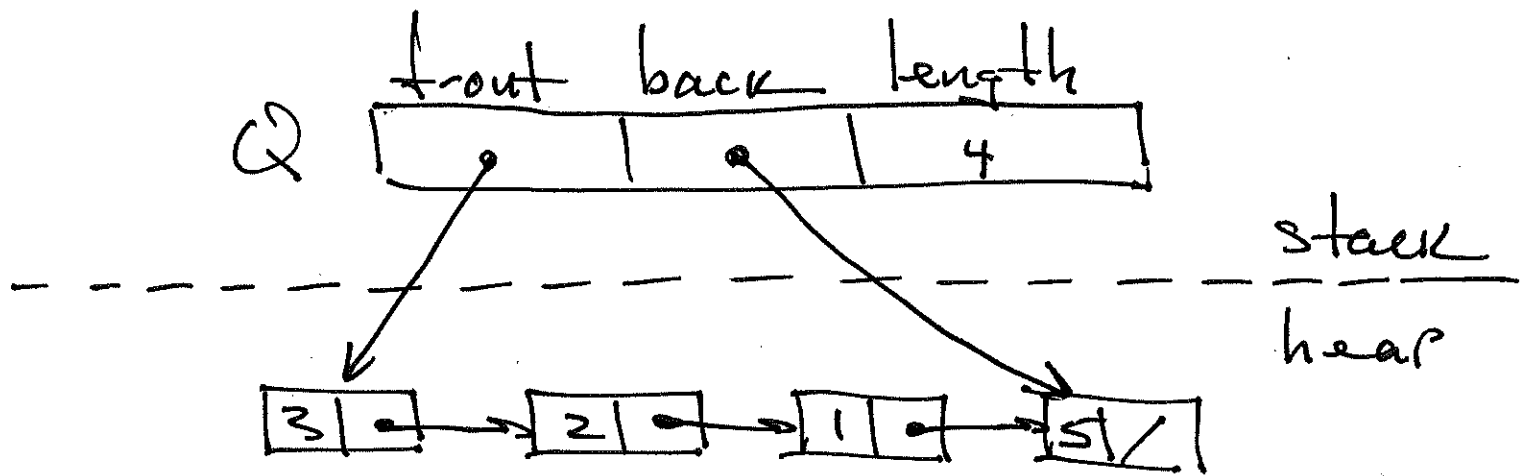
↑
this refers to this.

Queue example:

client view:

Q: 3 2 1 5
 ^ ^
 front back

inside view!



use new and delete to
manage heap memory. Don't
use malloc, calloc, realloc, free
in C++.

Exceptions in C++

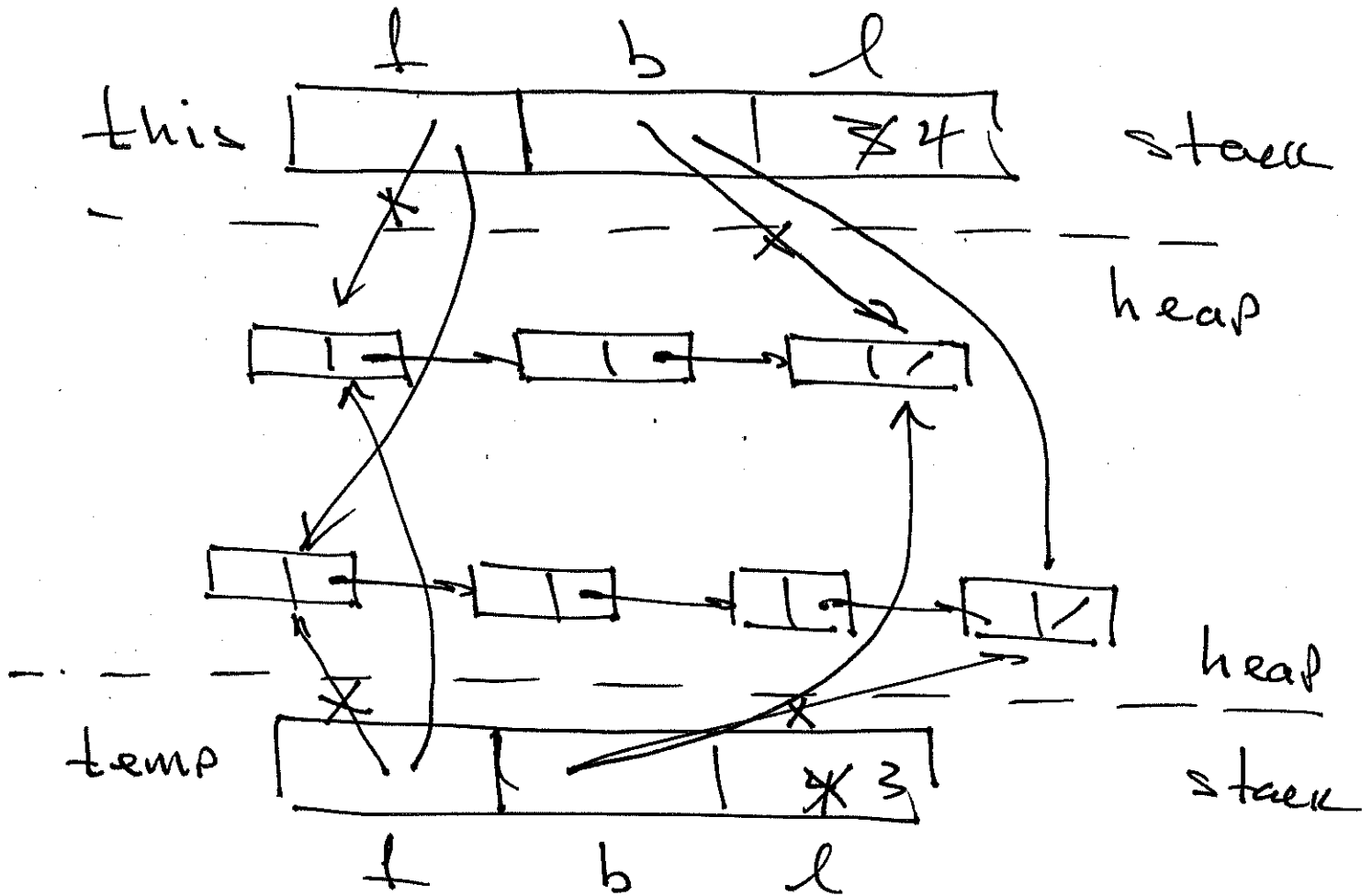
see header `<stdexcept>`

add a message (string) when
throw, of the form

"ADT: operation(): error description"

Assignment Operator

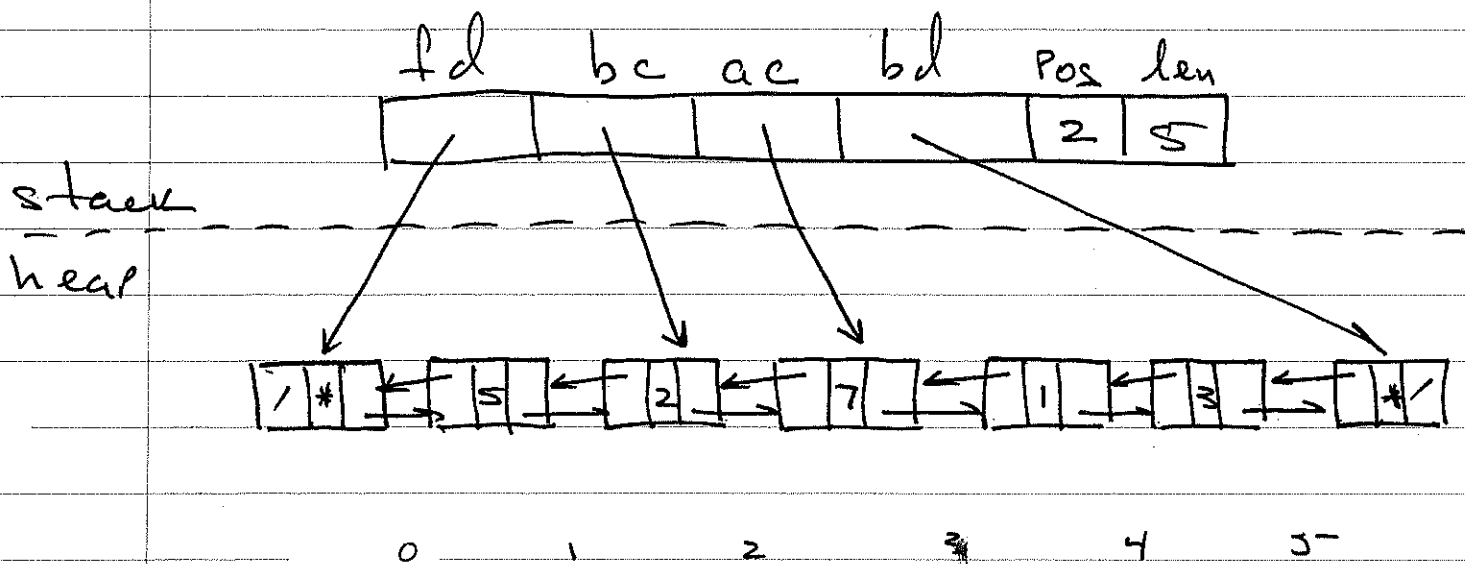
operator =()



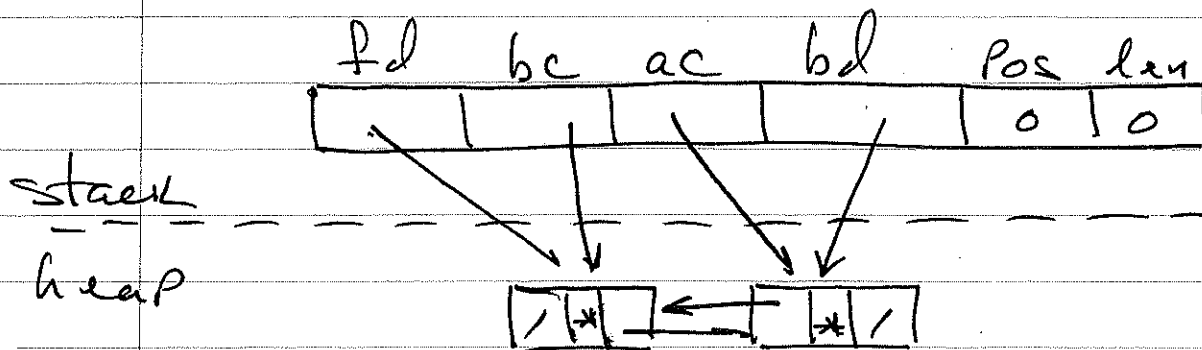
Pass: list in C++

client: $(\begin{array}{c|c|c|c|c|c} 5 & 2 & 7 & 1 & 3 & \end{array})$
 $\begin{array}{cccccc} 0 & 1 & 2 & 3 & 4 & 5 \end{array}$

inside:



empty state
 client: $(\begin{array}{c} 0 \\ | \end{array})$



Part 5 : how to write cleanup()

client view

(3 1 | 2 5 4 7 1 7 7 1 5)

cleanup()

(3 1 | 2 5)

suppose

3	1	2	5	5		4	7	1	7	1	5
+	=	==	==	==		==	==	==	==	==	==

another ex of cleanup/

Ex. $\textcircled{3} \neq \textcircled{1} \mid \textcircled{2} \textcircled{5}$

Ex. $\textcircled{3} \neq \textcircled{1} \neq \mid \textcircled{2} \neq \textcircled{5}$

↓
 $3 \neq 1 \mid 2 \neq 5$