

CS1010 Tutorial 1

Group BC1A

27 August 2020

Ground rules

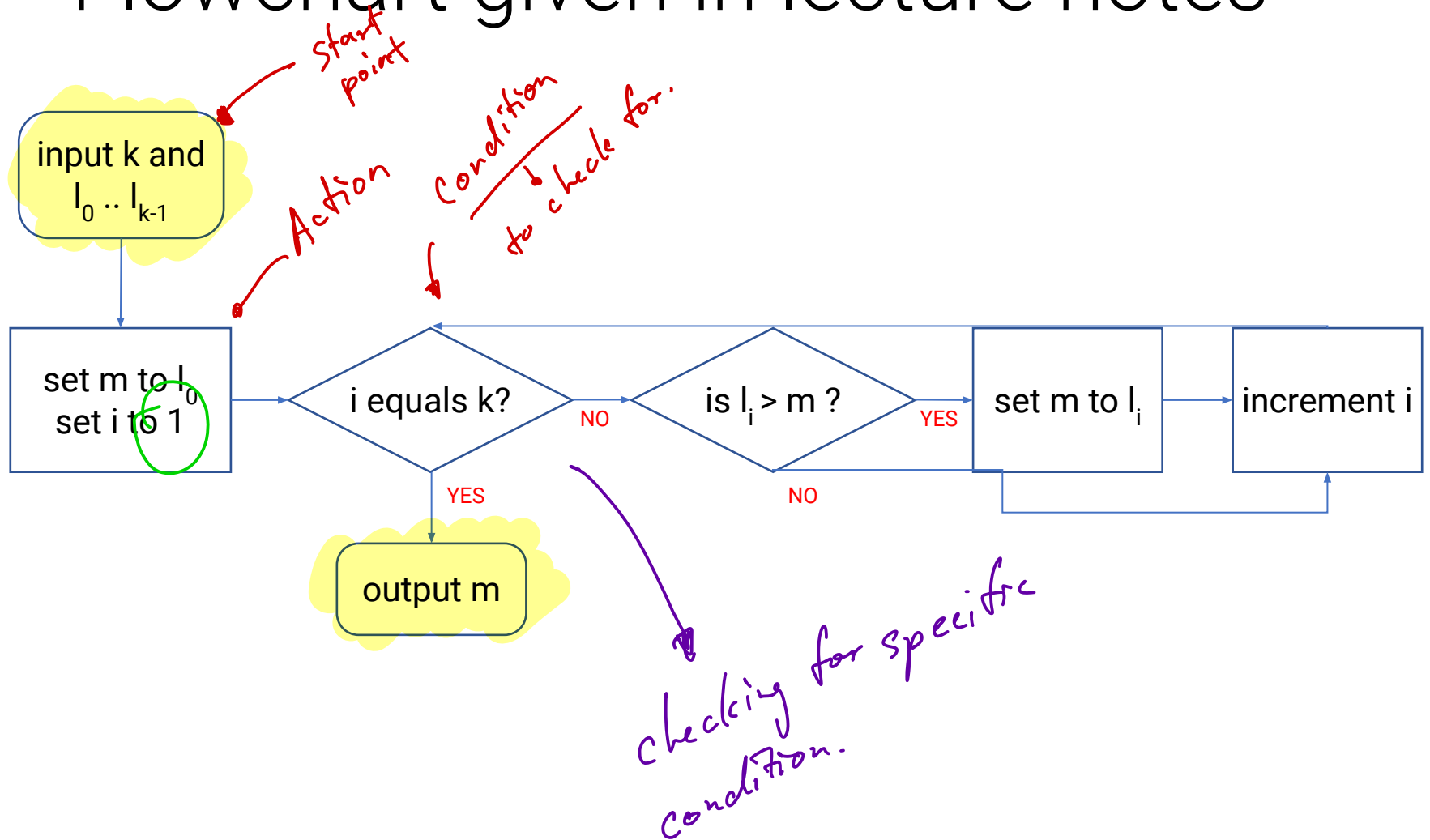
- Be participative in class
 - Turn on your webcam for lesson
 - Answer when questions are being posed
- Help each other out
- Don't be afraid to ask questions if needed
 - Can either unmute your mic or
 - Private message me

Topics for today

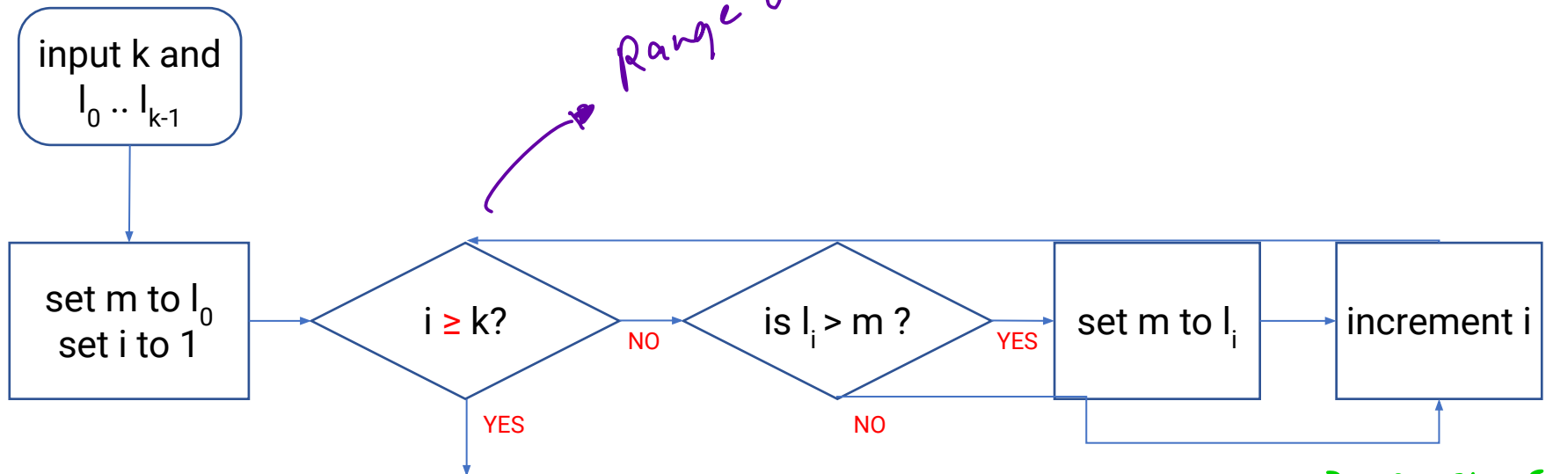
Objectives

- Recap on flowchart
- Going through problem set
- Accessing PE account
- UNIX Walkthrough
- Compiling and Running C programs
- Summary

Flowchart given in lecture notes



Problem 1.1(a)



Range of condition

multiple occurrences of k
maximum value

constantly updated

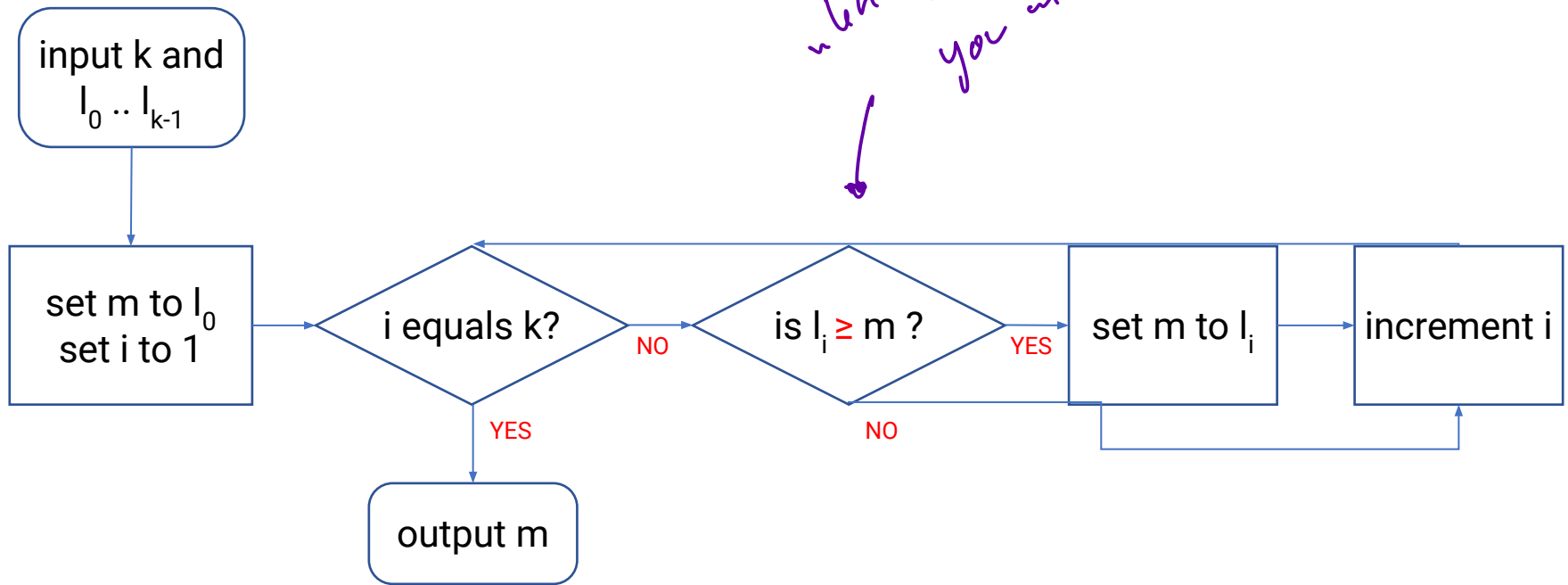
idx	1	2	3	4	5
	100	80	80	40	100

a returns this

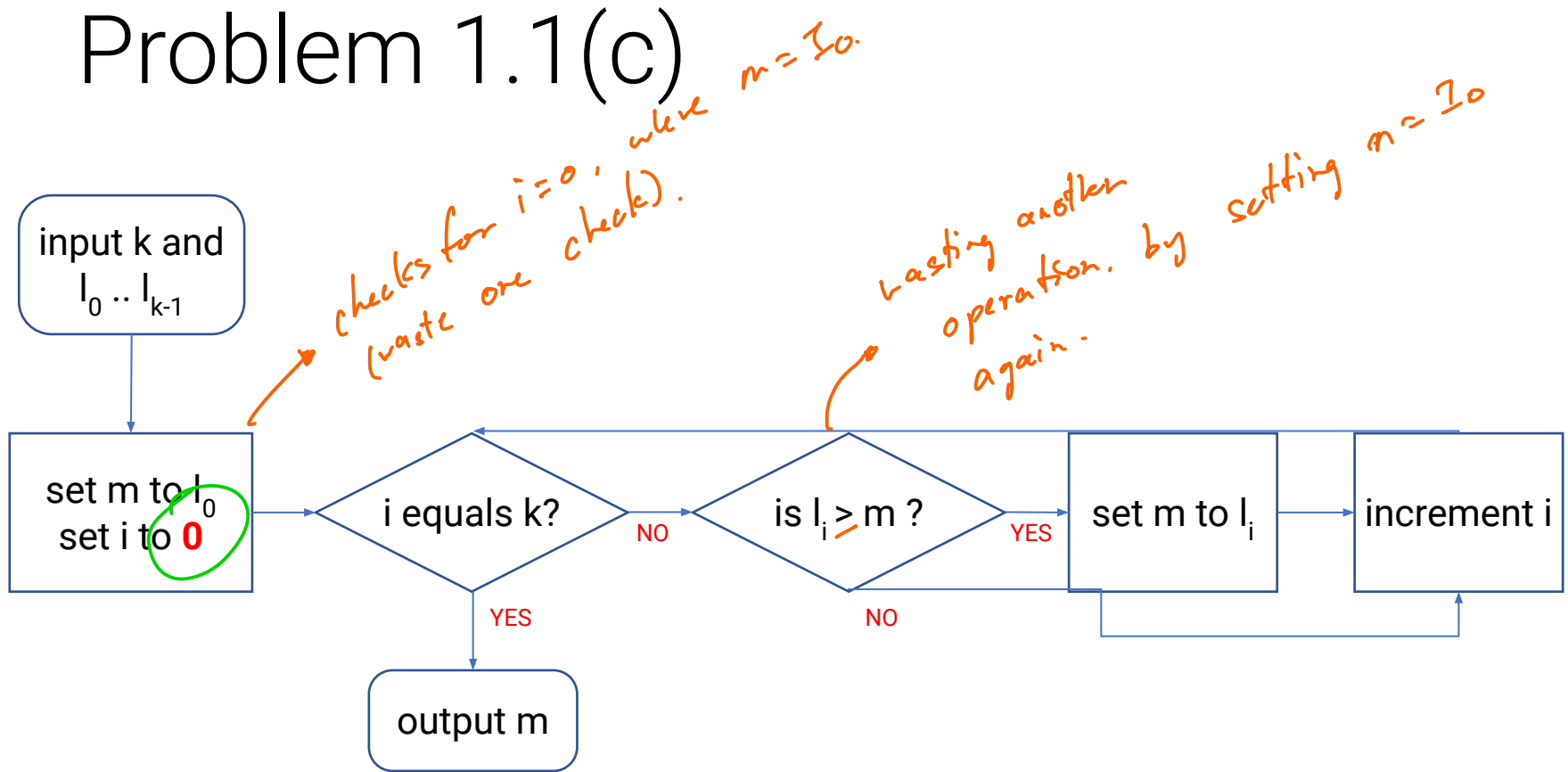
b returns this

Problem 1.1(b)

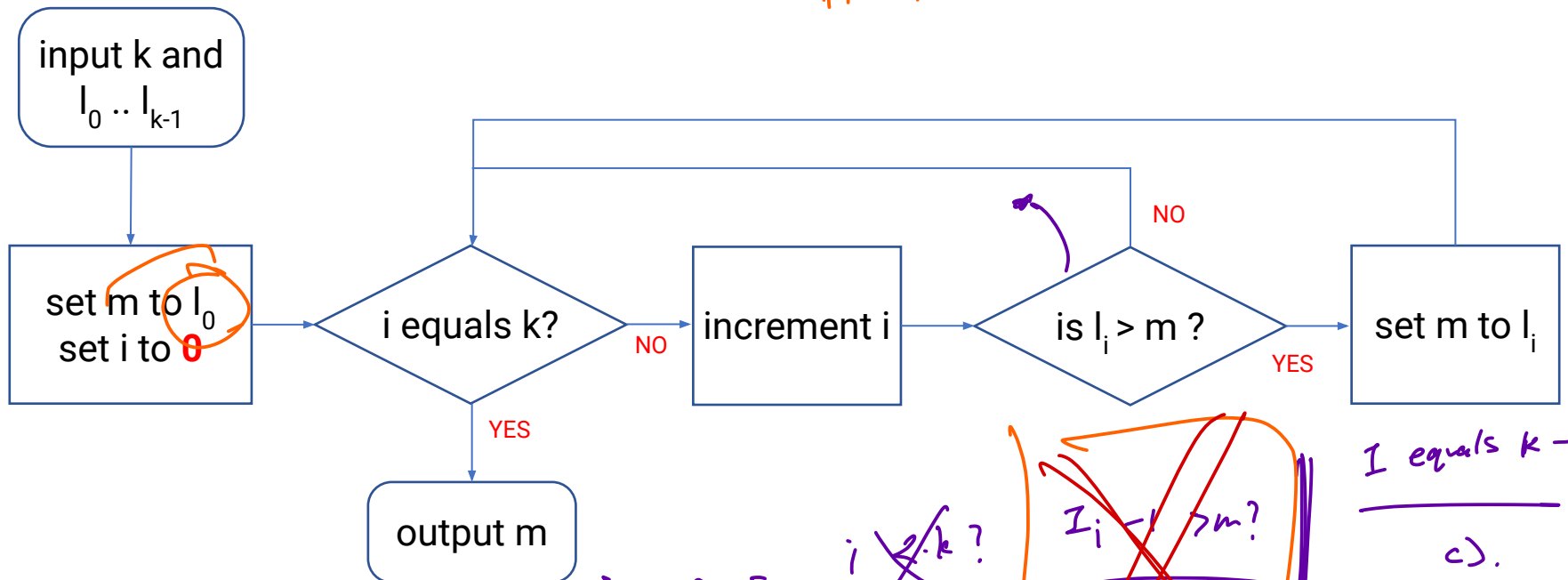
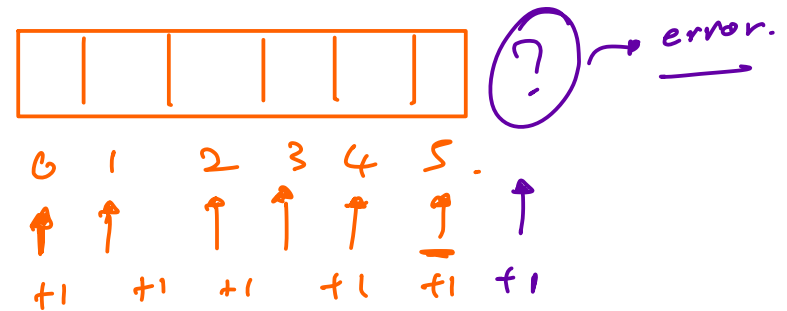
*Redundant check
when you have $I_i = m$,
you will now set m to I_i*



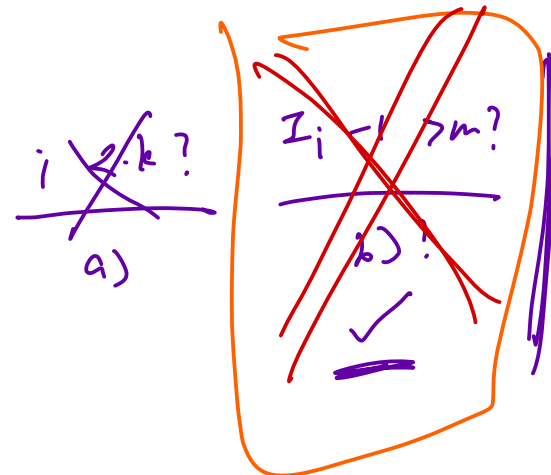
Problem 1.1(c)



Problem 1.1(d)

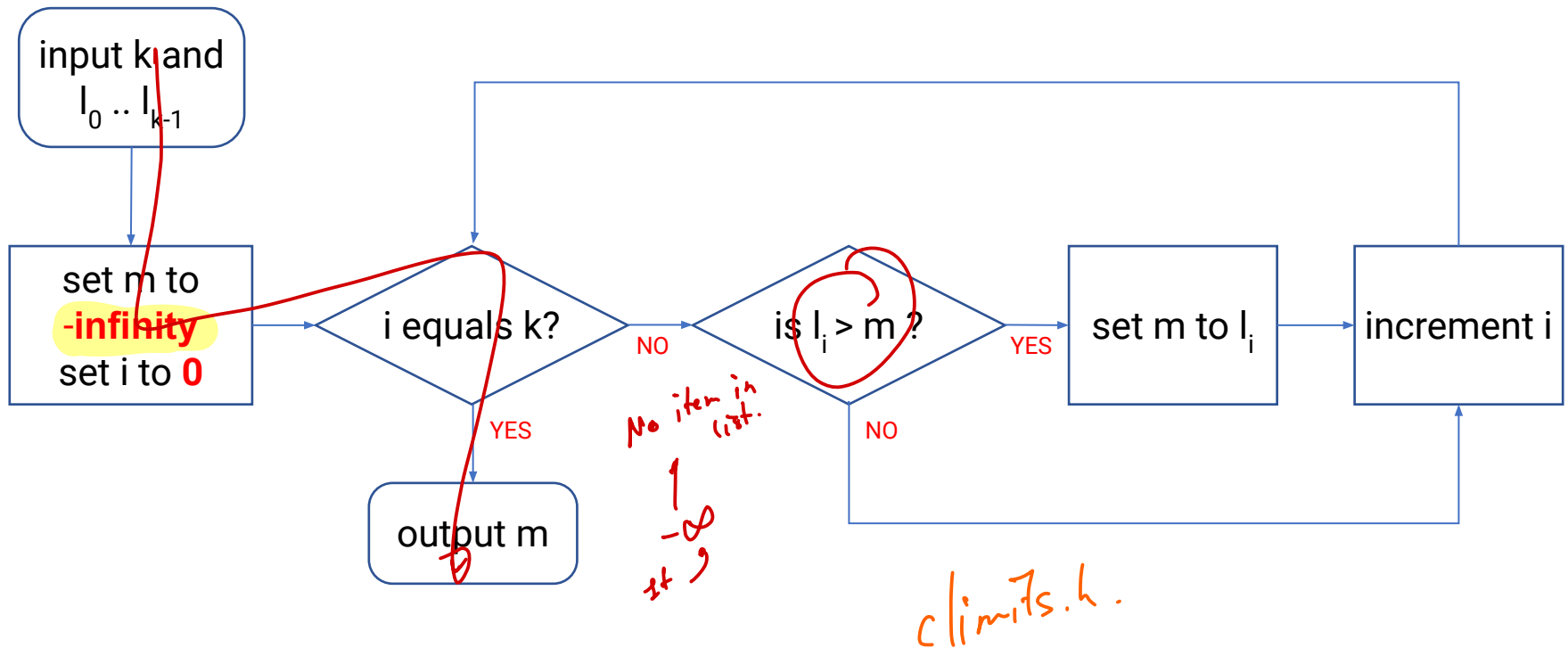


for $(i = 0 ; i < \text{size} ; i += 1) \{$
 // do something.
 $\}$



Problem 1.1(e)

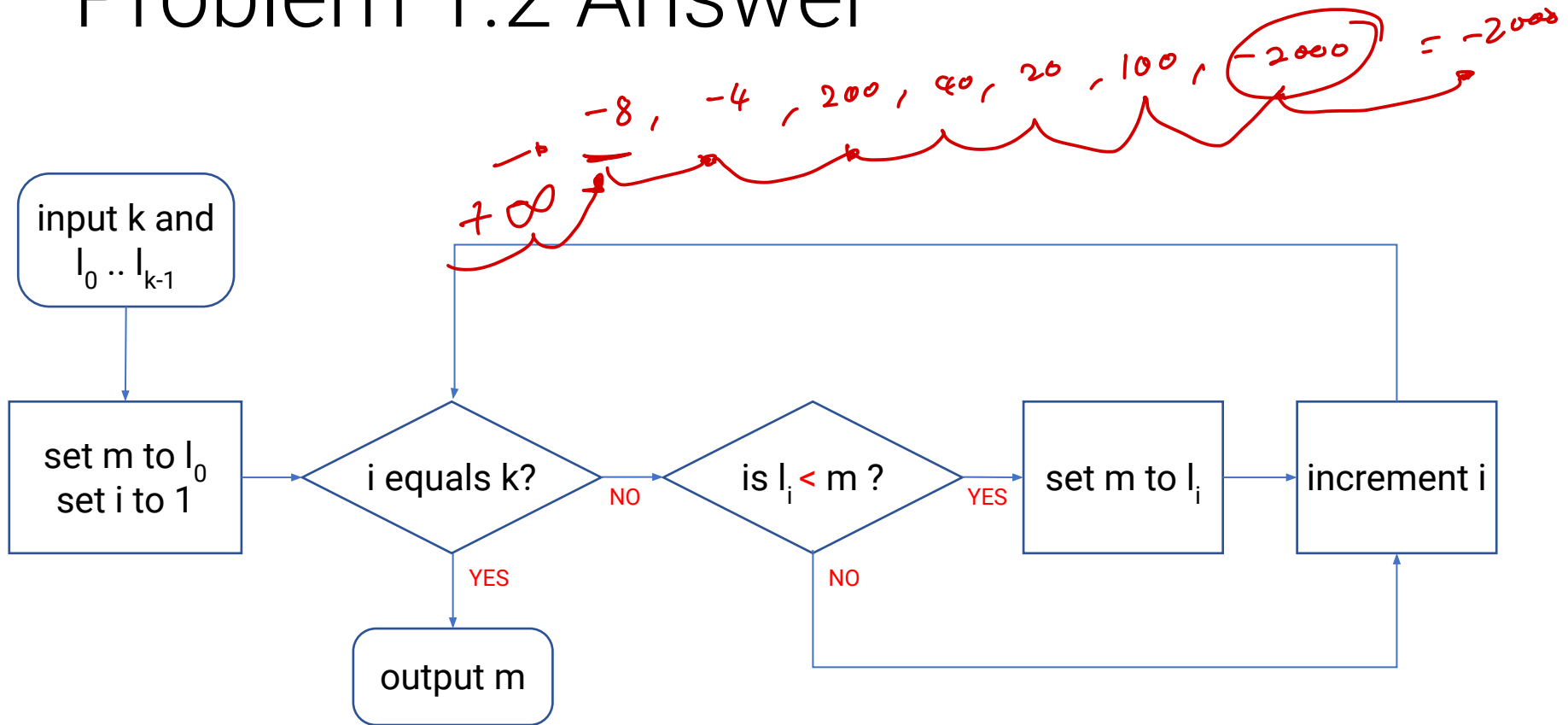
- 1) Whether an Array / list is empty
- 2) This works with neg numbers.



Problem 1.2

- Change the algorithm above to find the minimum value instead of the maximum value from the given list $L = \{l_0, \dots, l_{k-1}\}$.

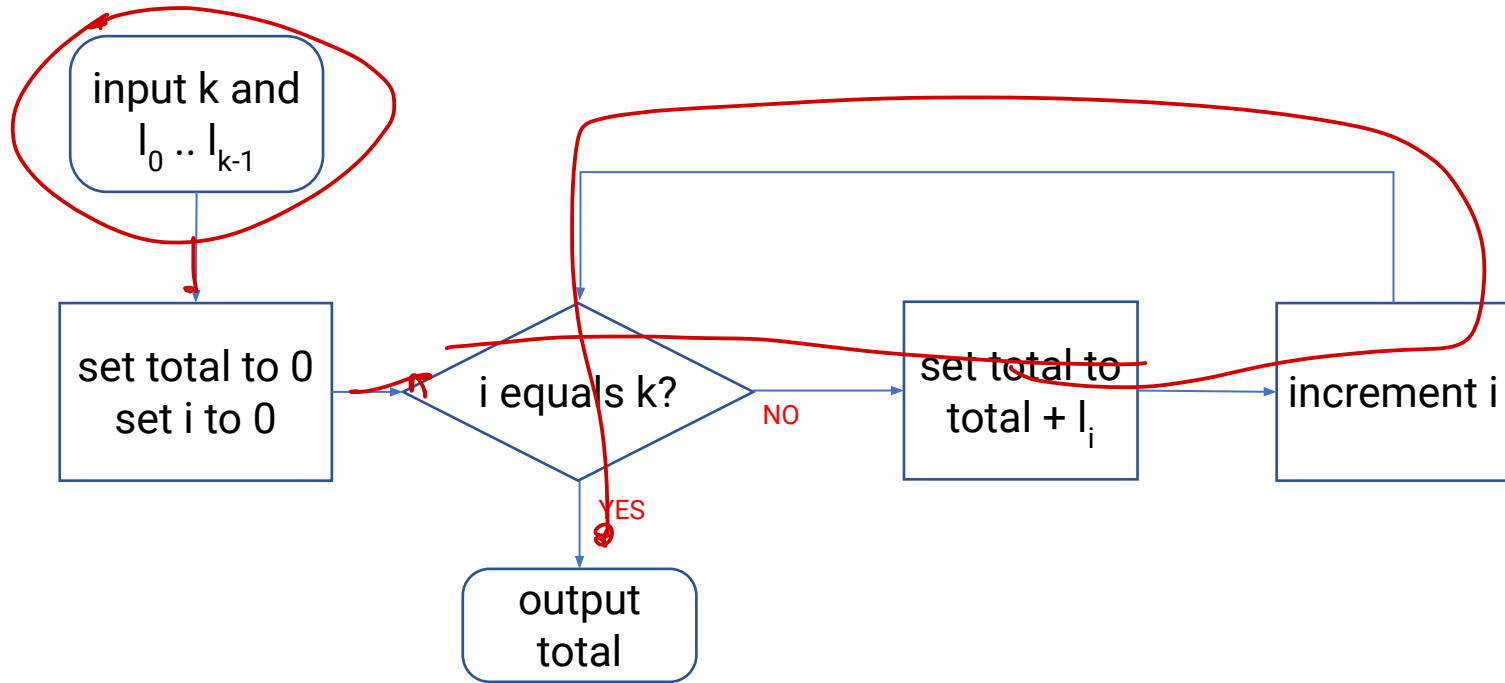
Problem 1.2 Answer



Problem 1.3

- Draw the flowchart for an algorithm, that takes in a list of integers $L = \{l_0, \dots, l_{k-1}\}$, $k \geq 0$, and compute the *sum* of all the integers. Think about what variable(s) do you need.

Problem 1.3 Answer



Accessing PE accounts

Any issues?

UNIX walkthough

- <https://nus-cs1010.github.io/2021-s1/unix.html>

CS1010 I/O Library

- <https://nus-cs1010.github.io/2021-s1/library.html>