comp1511 week 02

Catherine Cheng

agenda for today

- variables
- operators
- data types and arithmetic
- flow charts and pseudocode
- if, else if and else statements

operators in C

- what are the types of operators?

operators in C

- what are the types of operators?
  - arithmetic
  - logic
  - comparison

types of operators

arithmetic   +   -   *   /   %

logic   && || !

comparison   <   >   <=   >=   !=   ==

• what's the difference between / and %?

arithmetic

1. (7 / 2)

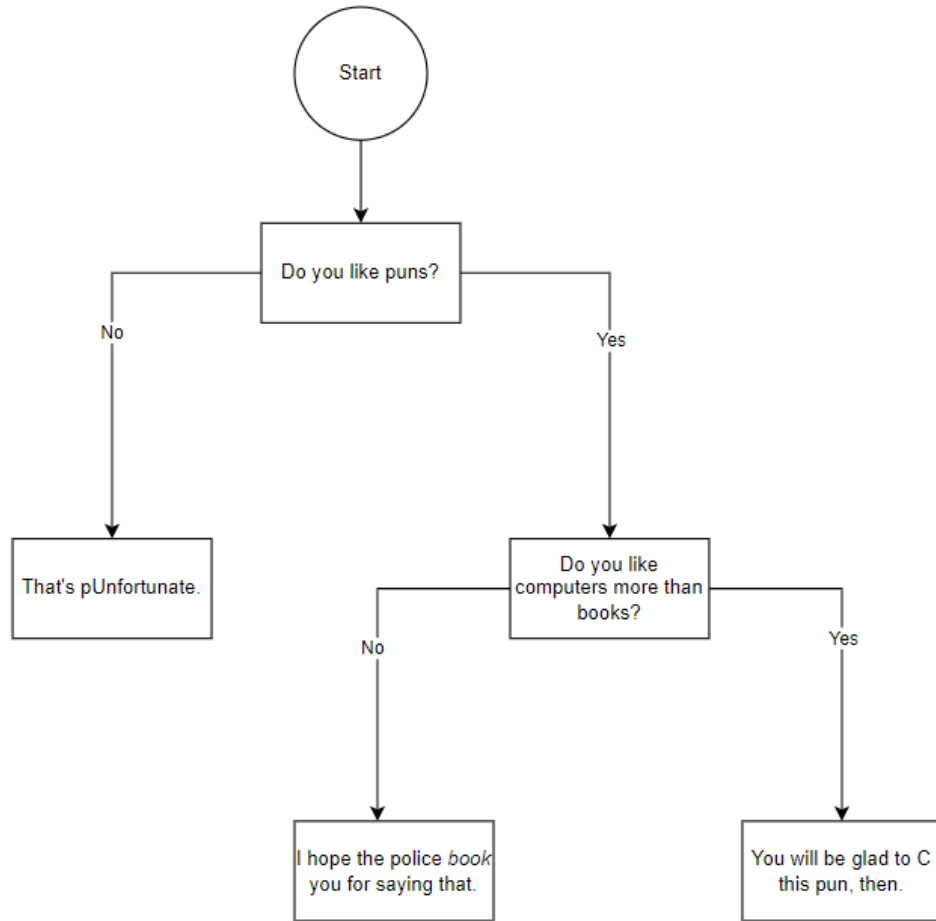2. (3.0 / 2) + 1

3. 'a' + 5

4. 'F' - 'A' + 'a'

arithmetic

1. (7 / 2) = 3

2. (3.0 / 2) + 1 = 2.5

3. 'a' + 5 = 'f'

4. 'F' - 'A' + 'a' = 'f'

flow charts and pseudocode


```
Print "Do you like puns?"
scan input
if yes:
    print "Do you like computers more than books?"
    scan input
    if yes:
        print "You will be glas to C this pun, then."
    else:
        print "I hope the police book you fro saying that"
else:
    print "That's pUnfortunate."
```

programming exercise!

In this activity, you'll be writing a program to determine whether someone is tall enough to ride a roller coaster. It should:

1. Scan in the users height.
2. If the height is 0 or less, it should print an error message,
3. If the height is below the minimum height, it should print a message telling the user they are not tall enough to ride,
4. If the hight is above the minimum but below the ride alone threshold, it should print a message telling the user they can ride with an adult,
5. If the height is or is above the ride alone threshold, it should print a message telling the user they can ride.

For the purposes of this activity the minimum height to ride if `100cm` and the minimum height to ride alone is `160cm` .

any questions?