Operators in C

- Arithmetic operators
  - `+   -   *   /   %`

- Comparison operators
  - `>   >=   <   <=   ==   !=`

- Logical operators
  - `&&   ||`

Arithmetic in C

```
11 % 3 is 2
```

Arithmetic in C

```
7 / 2 is 3
```

Arithmetic in C

3.0 / 2 + 1 is 2.5

(approximately)

Arithmetic in C

```
3 / 2 + 1 / 2 is 1
```

Arithmetic in C

```
3.0 / 2 + 3 / 2 is 2.5
```
(approximately)

Arithmetic in C

`'a' + 5 is 'f'`

(or 102)

Arithmetic in C
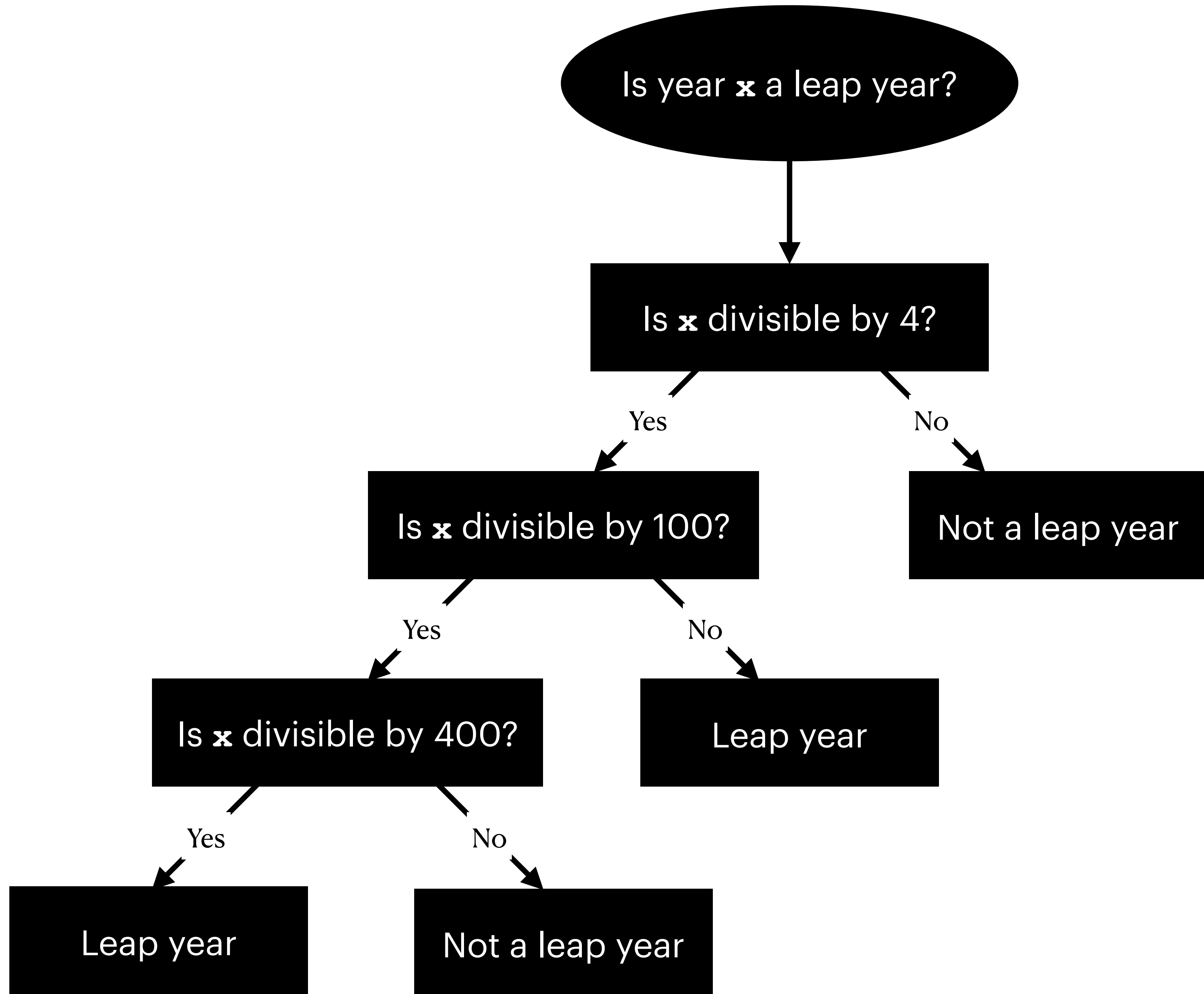
```
'0' + 1 is '1'
```
(or 49)

Arithmetic in C

```
'a' + 'F' - 'A' is 'f'
```

Arithmetic in C

```
1 >= 2 is 0
```

Arithmetic in C

```
0 < 1 && 1 > 2 is 0
```

Is year **x** a leap year?

Is **x** divisible by 4?

Yes → Is **x** divisible by 100?

No → Not a leap year

Is **x** divisible by 100?

Yes → Is **x** divisible by 400?

No → Leap year

Is **x** divisible by 400?

Yes → Leap year

No → Not a leap year

Years divisible by 4 are leap years.

Except, years divisible by 100 are not leap years.

Except, years divisible by 400 are leap years.