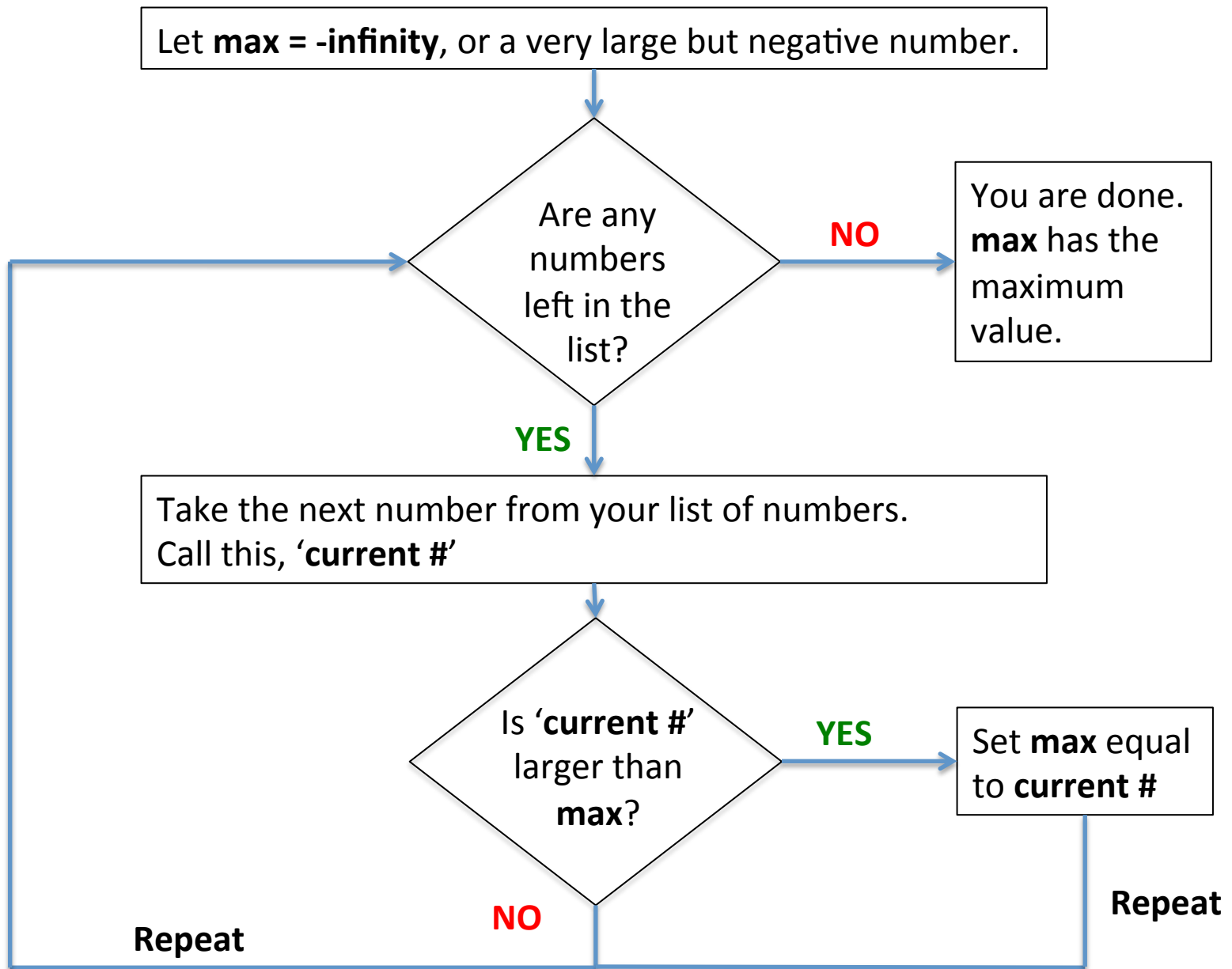


# Python 1

- Solution to exercise:

*What is the maximum? You are given a list of numbers. Describe (no programming here) how you will determine which of the numbers is the largest. I am looking for step-by-step direction at the very basic level. If your answer is something like "I will sort the numbers ....", you are on the wrong track. I am asking how you will start to sort the numbers to begin with. The answer I am looking is more along these lines: 'Take the first two numbers. Compare the first two numbers, etc.'*

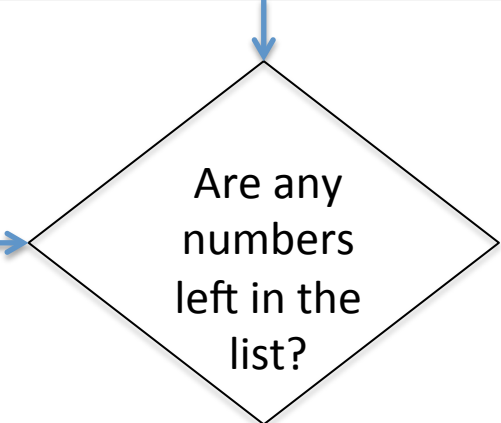


# Working Example

- Find the maximum of this list:

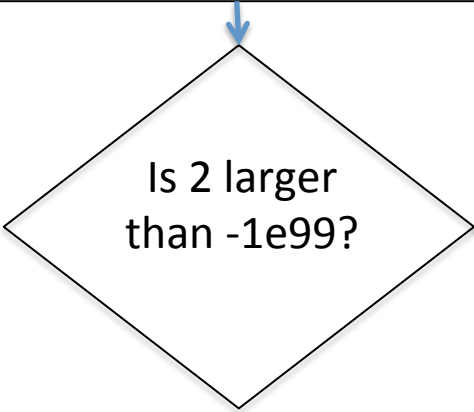
2, 10, 7, -4

Set  $\text{max} = -1\text{e}99$



YES

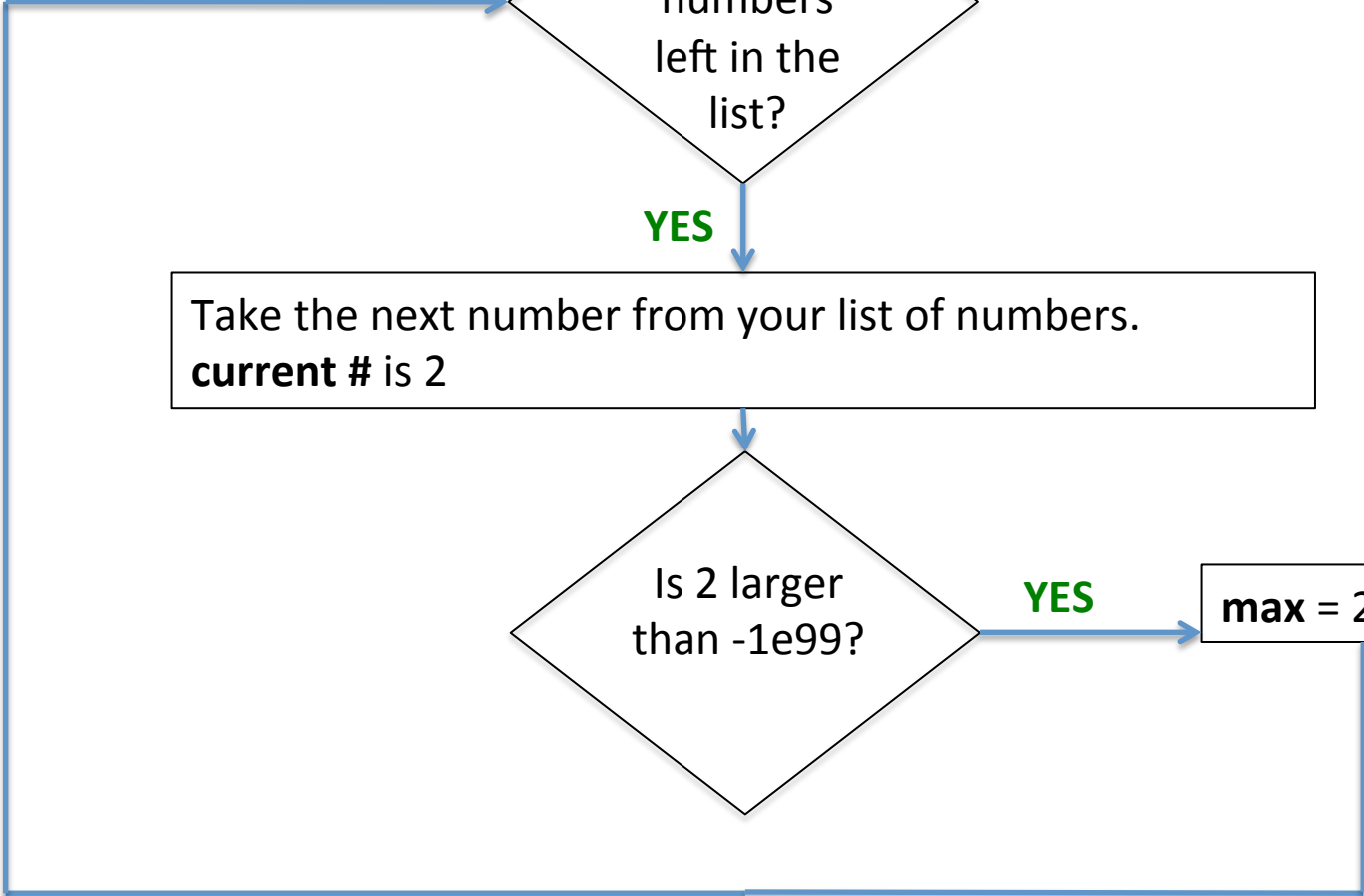
Take the next number from your list of numbers.  
**current # is 2**



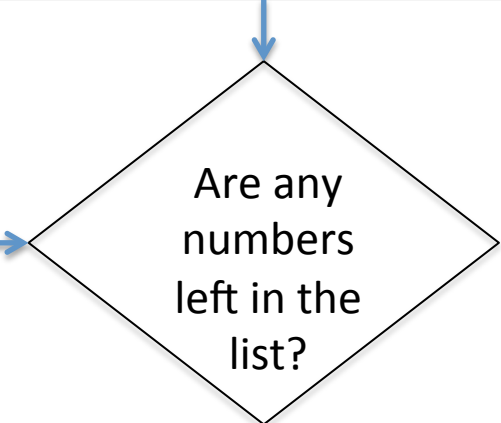
YES

**max = 2**

Repeat

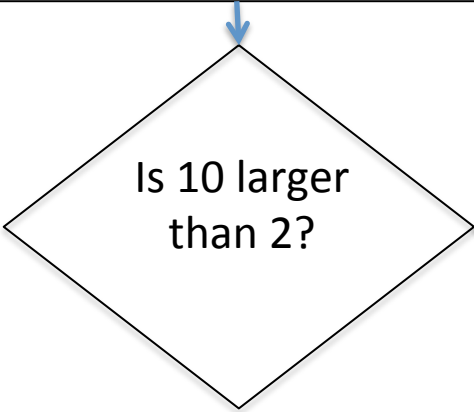


max is 2, from last iteration



YES

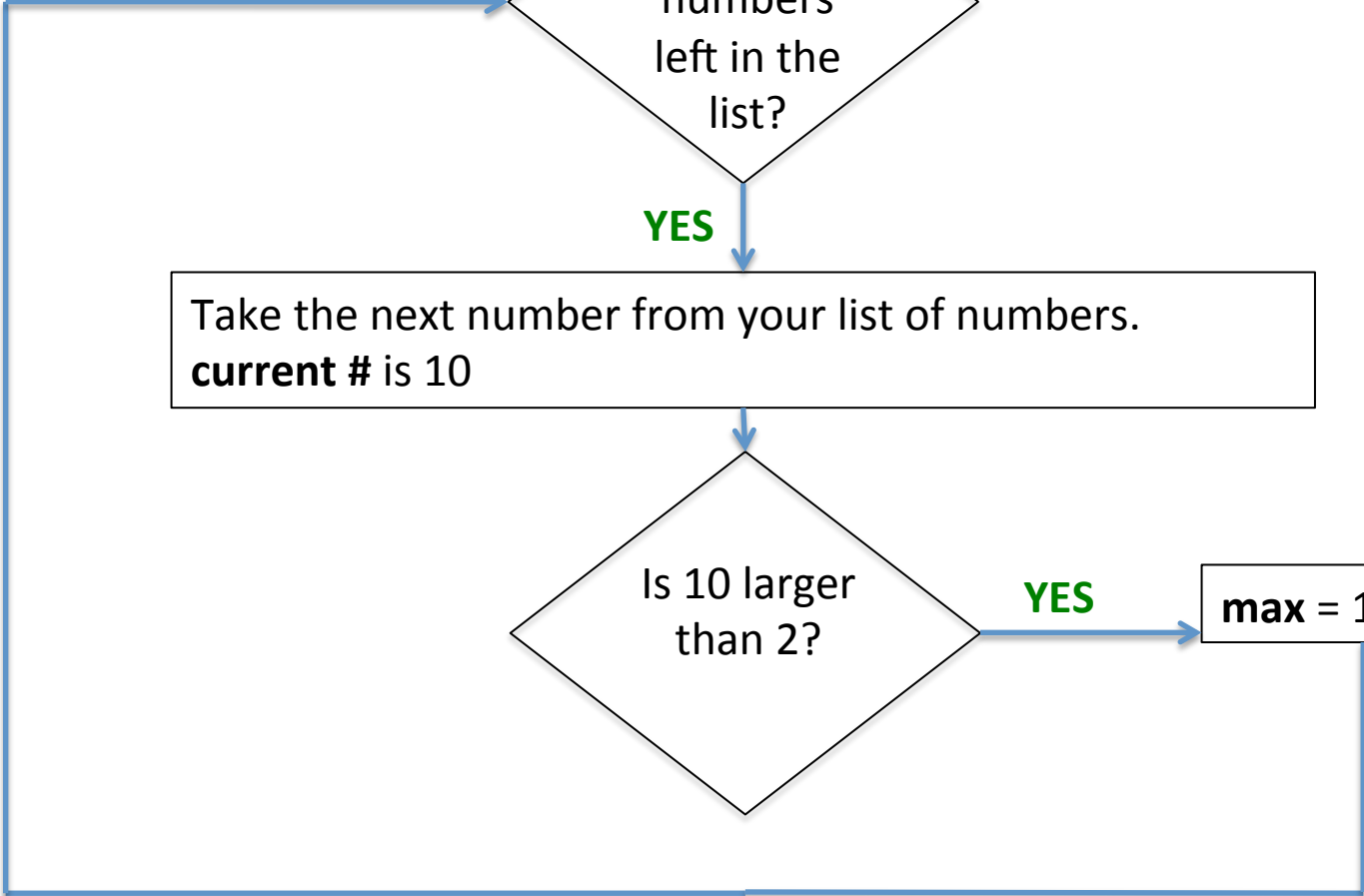
Take the next number from your list of numbers.  
current # is 10



YES

max = 10

Repeat



max is 10, from last iteration

Are any numbers left in the list?

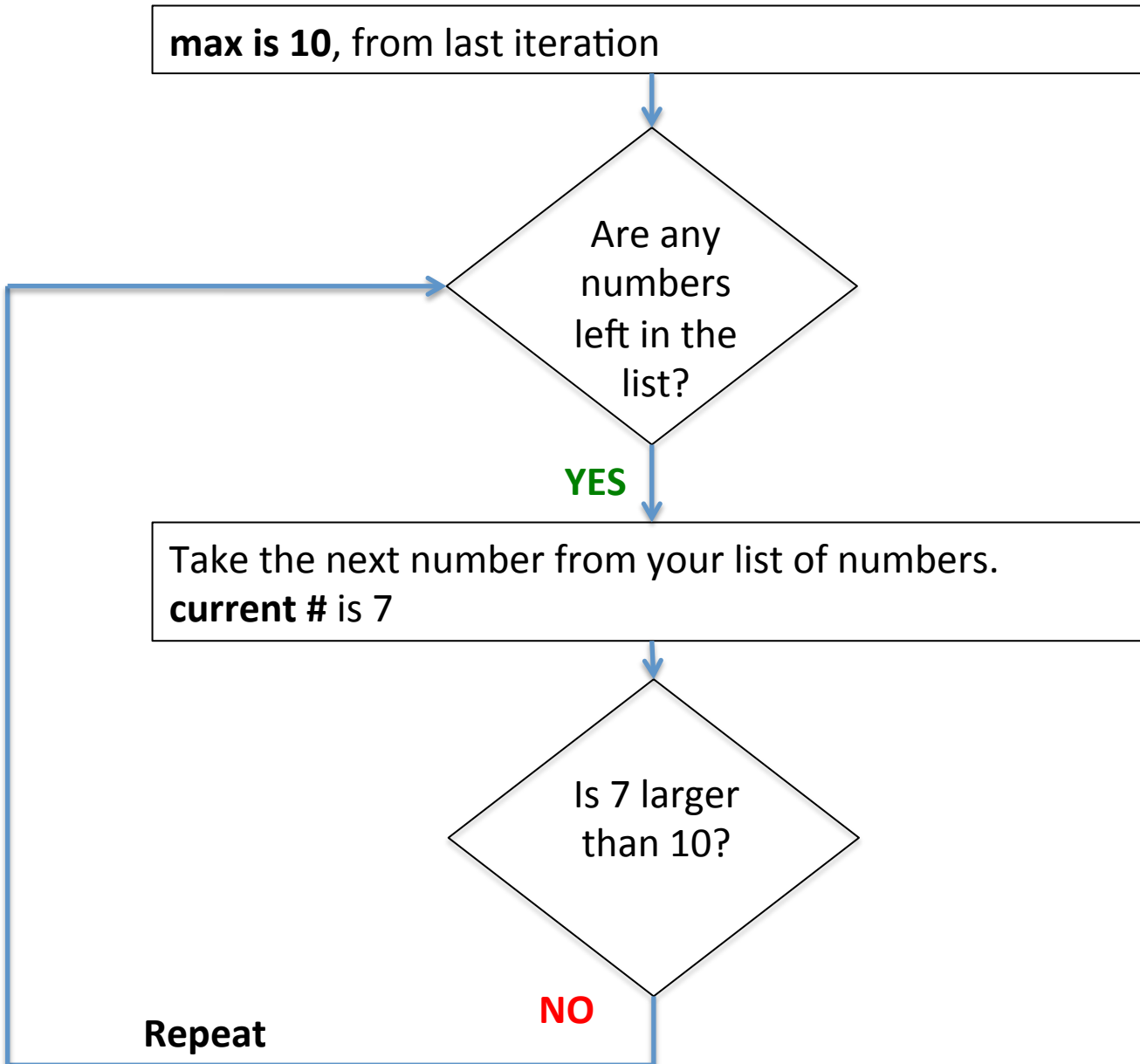
YES

Take the next number from your list of numbers.  
current # is 7

Is 7 larger than 10?

NO

Repeat



**max is 10**, from last iteration

Are any  
numbers  
left in the  
list?

**YES**

Take the next number from your list of numbers.  
**current # is -4**

Is -4 larger  
than 10?

**NO**

**Repeat**

max is 10, from last iteration

