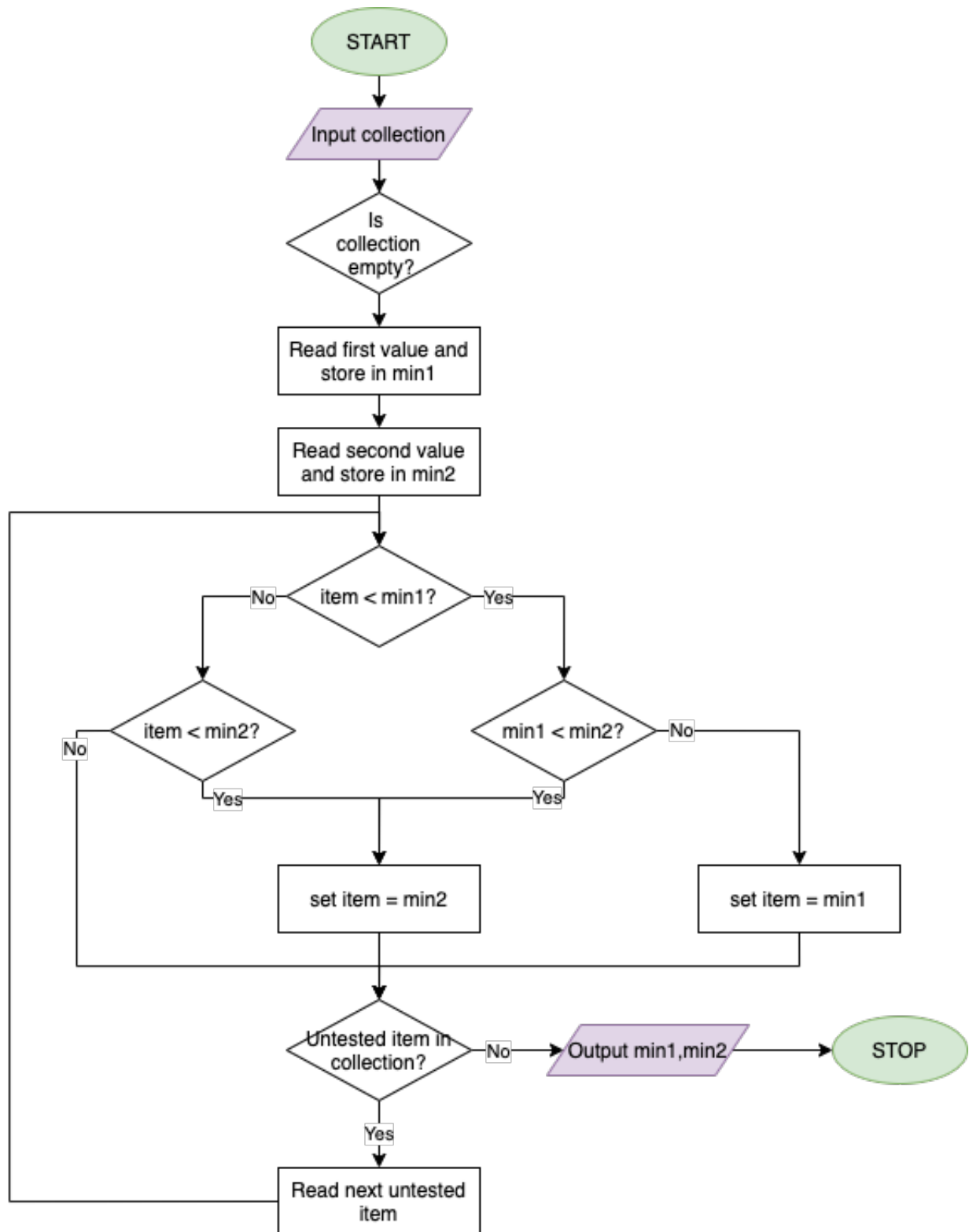In this assignment, you will convert a plain-English description of an algorithm to a flowchart, using some of the concepts from the "find-max" algorithm.

In completing this assignment, you will:

1. Modify an existing algorithm in order to solve a slightly different problem
2. Create a flowchart to describe an algorithm
3. Create a worked python example

START

Input collection

Is
collection
empty?

Read first value and
store in min1

Read second value
and store in min2

No— item < min1? —Yes

item < min2?   min1 < min2? —No

No

Yes   Yes

set item = min2   set item = min1

Untested item in
collection? —No→ Output min1,min2 —————→ STOP

Yes

Read next untested
item

In [31]:
```
coll = [5,6,7,2,3,1,10,13]
```

In [32]:
```
min1 = coll[0]
```

In [33]:
```
min2 = coll[1]
```

In [34]:

```python
for n in coll:
    if n < min1 and min1 < min2:
        min2=n
    elif n < min1 and min1 > min2:
        min1=n
    elif n > min1 and n < min2:
        min2=n
    else:
        n > min1 and n >min2
print(min1,min2)
```

1 2

```python
for n in coll:
    if n < min1 and min1 < min2:
        min2=n
```