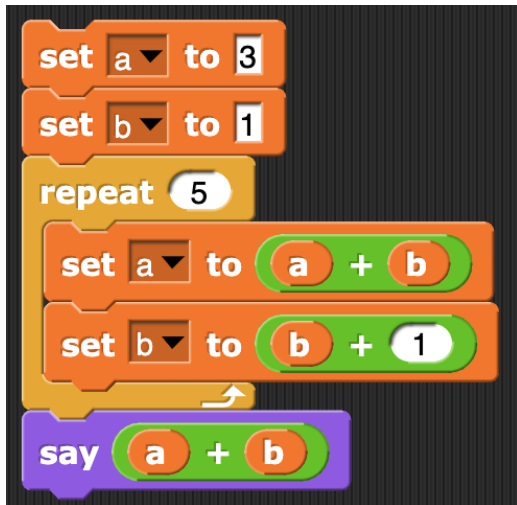


Trace Tables & Pseudocode

1. Here is an algorithm written in Snap; assume **a** and **b** are global variables.



a. Complete the trace table to help you determine what the sprite will say at the end.

Iteration	a	b
0	3	1

b. What will the sprite say?

2. Here is an algorithm written in AP exam pseudocode:

```

num ← 10
output ← 5
REPEAT UNTIL (num < 0)
  IF (num > output)
    output ← output + num
  ELSE
    output ← output - num
  num ← num - 2
DISPLAY output
  
```

Complete the trace table to help you determine what will be displayed when this algorithm is executed:

num		

What gets displayed?

3. Here is an algorithm written in AP exam pseudocode:

```

numList ← [8, 7, 9, 5]
len ← LENGTH(numList)
count ← 1
sum ← 0

REPEAT len TIMES
{
    sum ← sum + numList[count]
    count ← count + 1
}

DISPLAY(sum + count)

```

Complete the trace table to help you determine what will be displayed when this algorithm is executed (make sure to identify what variables (or lists!) you're keeping track of):

What gets displayed?