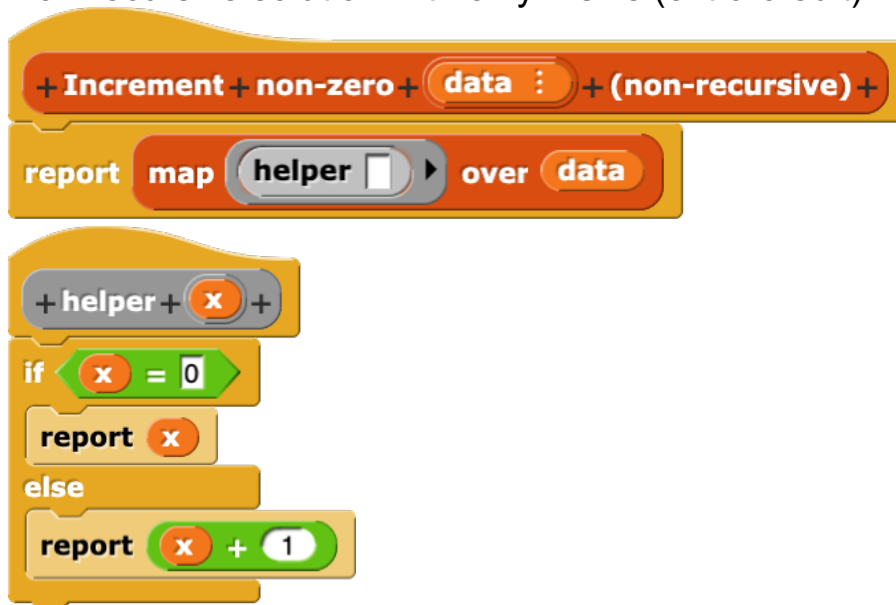**Snap:**

a. Recursive solution:

```
+Increment+non-zero+(data ⋮)+(recursive)+
if  empty? (data)
  report (data)
else
  if  (item (1▾) of 🔢 = 0)
    report  (item (1▾) of (data)) in front of
            (Increment non-zero (all but first of (data)) (recursive))
  else
    report  ((item (1▾) of (data)) + (1)) in front of
            (Increment non-zero (all but first of (data)) (recursive))
```

b. Non-recursive solution with loops:

```
+Increment+non-zero+(data ⋮)+(non-recursive)+
script variables (new list) ▶
set (new list▾) to (list ▶)
for each (item) of (data)
  if  (item) = 0
    add (item) to (new list)
  else
    add ((item) + (1)) to (new list)
report (new list)
```

c. Non-recursive solution with only HOFs (extra credit):

Python:

```python
def TAs_with_at_least_half_discussions_full(enrollment, attendance):
    TAs = []
    for TA in attendance:
        num_full = len([x for x in attendance[TA] if x >= enrollment[TA]])
        if num_full >= 5:
            TAs.append(TA)
    return TAs
```