

No: \_\_\_\_\_

## \* Happy Number

$$19 \rightarrow 1^2 + 9^2 = 82$$

$$8^2 + 2^2 = 68$$

$$6^2 + 8^2 = 100$$

$$1^2 + 0^2 + 0^2 = 1 \checkmark$$

We are checking for 1

Can use set to store results. If getting duplicated, then return false. Else keep checking for 1.

As optimal solution, do the same as Linked list cycle.

2nd pointer pointing to the first pointer is the redundancy.

2nd pointer = 1 is the true case.

Floyd cycle detection algorithm