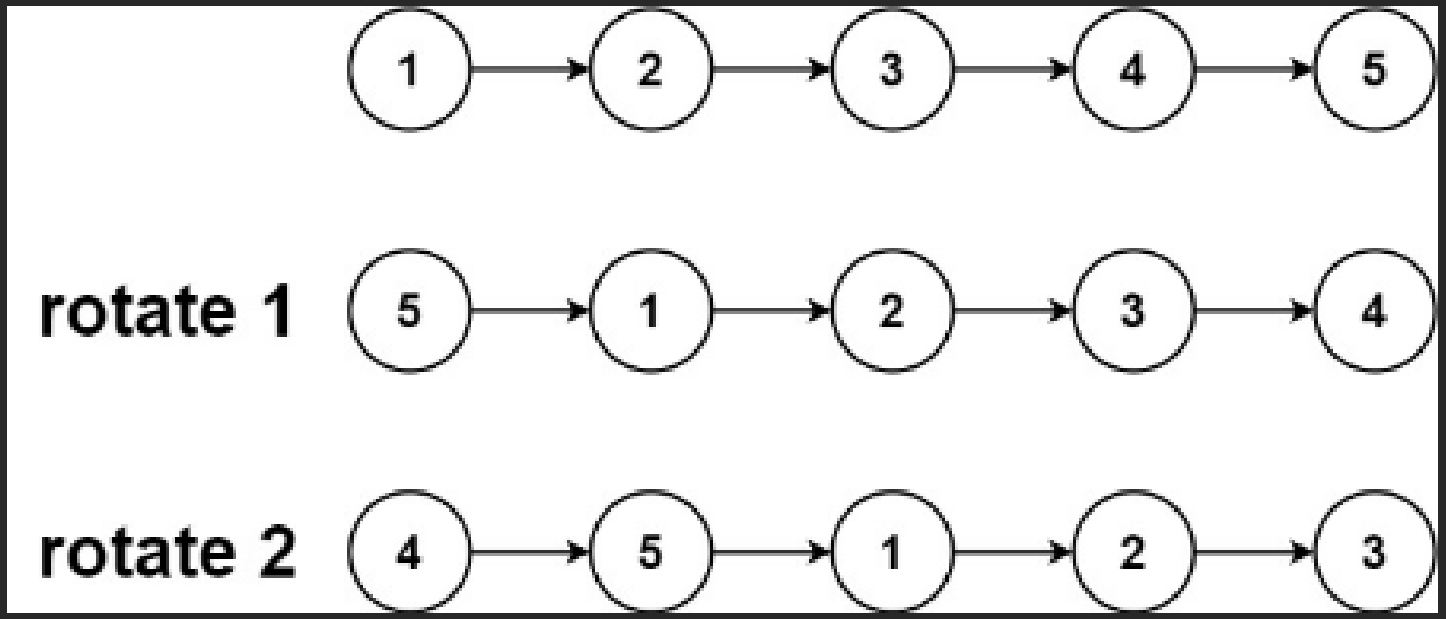
Rotate the matrix

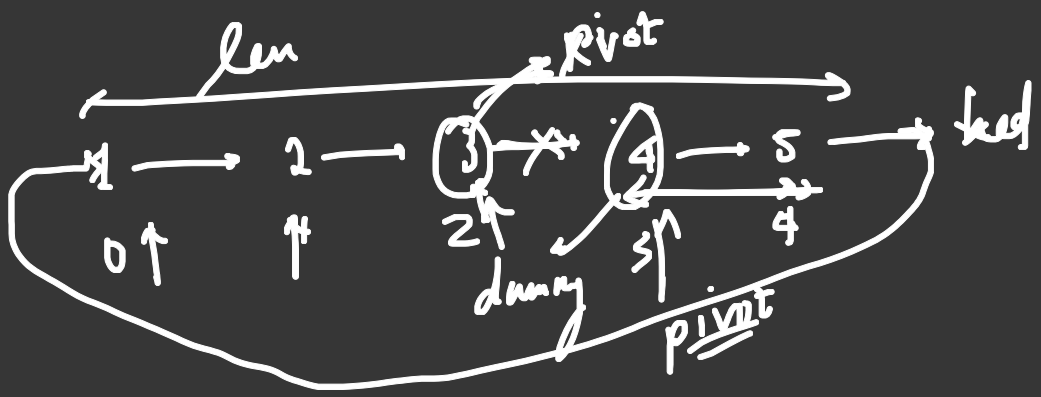
Given the `head` of a linked list, rotate the list to the right by `k` places.

Example 1:



> **Input:** `head = [1,2,3,4,5], k = 2`
> **Output:** `[4,5,1,2,3]`

Given, linked list head and K



K = 2

len = 5 - 2 = 3

len = 5 - 2 = 3

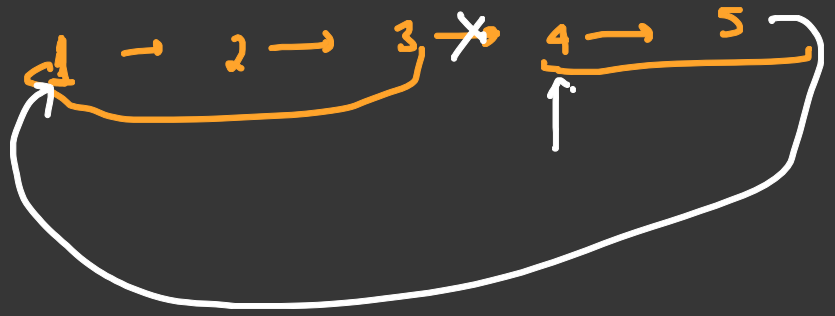
5 → 1 → 2 → 3 → 4 → x

4 → 5 → 1 → 2 → 3 → x

dummy

pivot = NULL

dummy



Brute force:

for k times → point last node to head.

1 → 2 → 3 → 4 → 5 → X

1: 1 → 2 → 3 → 4 → X 5 (head)

5 → 1 → 2 → 3 → 4 → X

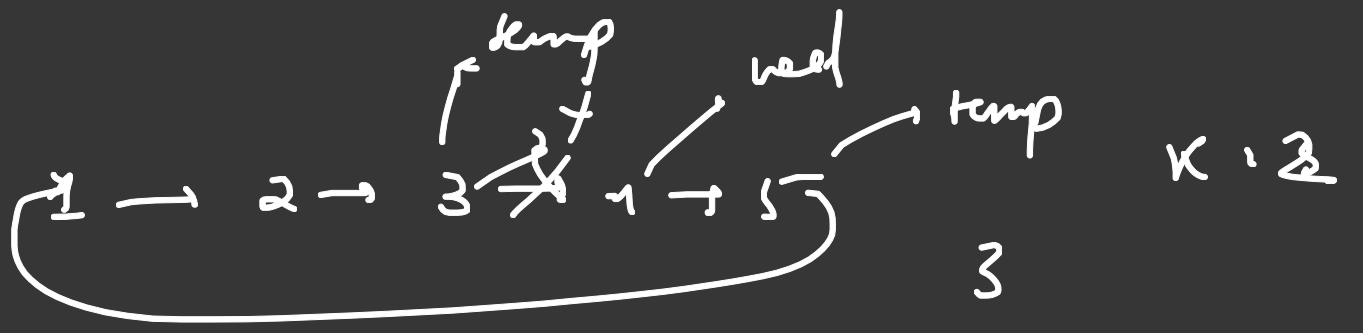
2: 5 → 1 → 2 → 3 → X 4 (head)

4 → 5 → 1 → 2 → 3 → X

T.C : O(N^K)

Optimal

Like I dea Above



connect last node to head.

and move temp to diff(Cn-K) to Nu

~~temp → next~~ head = temp → next

temp → next = NULL

1 → 5 → 4 → 3 → 2 → 1 →

T.C = O(2N-K) ≤ O(N)

S.C : O(1)