

## Problem Challenge 1

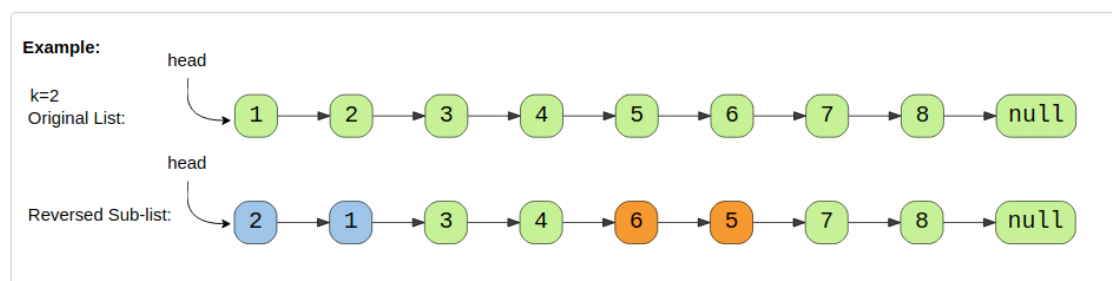
### We'll cover the following

- Reverse alternating K-element Sub-list (medium)
- Try it yourself

## Reverse alternating K-element Sub-list (medium) #

Given the head of a LinkedList and a number 'k', reverse every alternating 'k' sized sub-list starting from the head.

If, in the end, you are left with a sub-list with less than 'k' elements, reverse it too.



## Try it yourself #

Try solving this question here:

Java Python3 JS C++

```
1 from __future__ import print_function
2
3
4 class Node:
5     def __init__(self, value, next=None):
6         self.value = value
7         self.next = next
8
9     def print_list(self):
10        temp = self
11        while temp is not None:
12            print(temp.value, end=" ")
13            temp = temp.next
14        print()
15
16
17 def reverse_alternate_k_elements(head, k):
18     # TODO: Write your code here
19     return head
20
21
22 def main():
23     head = Node(1)
24     head.next = Node(2)
25     head.next.next = Node(3)
26     head.next.next.next = Node(4)
27     head.next.next.next.next = Node(5)
28     head.next.next.next.next.next = Node(6)
29     head.next.next.next.next.next.next = Node(7)
30     head.next.next.next.next.next.next.next = Node(8)
31
32     print("Nodes of original LinkedList are: ", end='')
33     head.print_list()
34     result = reverse_alternate_k_elements(head, 2)
35     print("Nodes of reversed LinkedList are: ", end='')
36     result.print_list()
37
```

```
38
39 main()
40
```

Run

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Reverse every K-element Sub-list (me...

Solution Review: Problem Challenge 1

✓ Completed

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