Course #3 Data Structures
Assignment #2 Linked List

Implement a Linked List of integer class “MyLinkedList” with the following methods:

1) Add element at given index. void add(element, index)
2) Add element to the tail. void push(element)
3) Remove element at given index and return this element. int remove(index)
4) Remove the element at the tail and return it. int pop()
5) Clear all elements. void clear()
6) Length. int length()
7) Print. void print()
8) Search. int search(element)
9) Concatenate another Linked List. MyLinkedList concat(list)
10) Convert it to an Array. MyLinkedList convert()

Sample Run: (inputs in green)

Welcome to linked lists
Operation: add 10 0
Operation: push 20
Operation: remove 1
20
Operation: add 30 0
Operation: add 50 9
Invalid operation
Operation: push 60
Operation: length
3
Operation: concat 11 12 13
Operation: print
30 10 60 11 12 13
Operation: pop
13
Operation: convert
30 10 60 11 12
Operation: search 60
2
Operation: search 90
-1
Operation: clear
Operation: length
0
Operation: end

Hint: You can split input string by space.