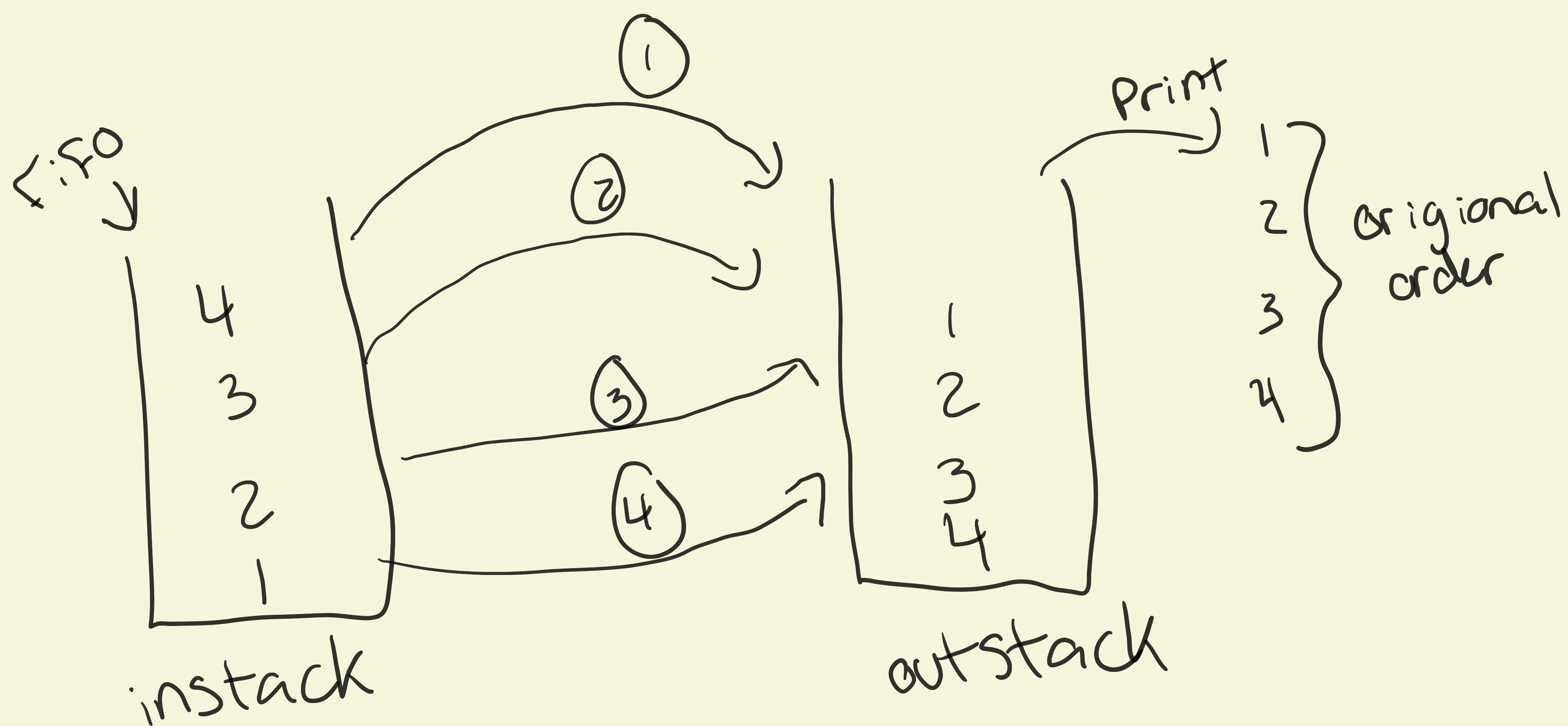


Queue 2 Stack
Create stack that behaves like queue
Needs another stack to connect to



programiz.com/dsa/queue

bigocheatsheet.com

def reverse_file(filename):

```
stack_ADT.py - D:\SPRING 2022\Python\LECTURES\CHAPTER 6\stack_ADT.py (3.9.12)
You are screen sharing
Stop Share

File Edit Format Run Options Window Help
51 ## '''Overwrite given file with its contents line-by-line reversed.'''
52 ## print("reversefile executing")
53 ## S = ArrayStack()
54 ## original = open(filename)
55 ## for line in original:
56 ##     S.push(line.rstrip( '\n' )) # we will re-insert newlines when writing
57 ## original.close( )
58 ## # now we overwrite with contents in LIFO order
59 ## output = open(filename, 'w' ) # reopening file overwrites original
60 ## while not S.is_empty( ):
61 ##     output.write(S.pop( ) + '\n' ) # re-insert newline characters
62 ## output.close( )
63 ##reverse_file("ReverseFile.txt")
64
65
66 ## Question R-6.5:
67
68 def reverse_list(S):
69     temp = ArrayStack()
70     for i in S:
71         temp.push(i)
72
73     for i in range(len(S)):
74         S[i] = temp.pop()
75
76
77
78 if __name__ == "__main__":
79
80
81
82     print(" Question R-6.5:Implement a function that reverses a list of elements\n by pushing them onto "
83           "a stack in one order, and writing them back to the list in reversed order. \n")
84
85     fst = [1,2,3,4,5,6]
86
87
88     print ('Before calling reverse_list: ', fst)
89     reverse_list(fst)
90     print("After calling reverse_list: ", fst)
91     print()
92
```