Programming, Data Structures And Algorithms Using Python - Week 6

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Contents covered in Week 6 lectures:

- Backtracking
- Global scope
- Nested functions
- Generating permutations
- Sets
- Stacks
- Queues
- Priority queue
- Heaps

Q. Write a program to reverse a string using Stack.

Input: abcde

Output: edcba

Q. Write a program to convert prefix to infix expression.

Input: + * A B * C D

Output : ((A * B) + (C * D))

Q. Write a program to check for balanced parentheses.

Input: [({}{})]

Output: Yes

Input: [{]]

Output: No

Q. Write a program to print next greater element in array.

Input: [4, 2, 5, 6]

Output [5, 5, 6, -1]

Input: [20, 1, 2, 13]

Output: [-1, 2, 13, -1]

Q. Write a program to check if string is a palindrome using a stack and a queue

Input: racecar

Output: Yes



Thank you!