

## REMOVE OUTMOST BRACKET:

```
def remove_outermost_brackets(s):
    stack = []
    result = ""

    for i, char in enumerate(s):
        if char in "({[<":
            stack.append(i)
        elif char in ")}]>":
            if stack:
                start = stack.pop(0)
                if not stack:
                    result = s[start + 1:i]
                    break
    return result if result else s

print(remove_outermost_brackets("(Hello)"))
```

## To reverse the words in a string:

```
# 1. Reverse the words in a string
def reverse_words(s):
    return ' '.join(s.split()[::-1])

print(reverse_words("Hello World!")) # Output: "World! Hello"
```

## To return longest common prefix:

```

# 2. Return the longest common prefix
def longest_common_prefix(strs):
    if not strs:
        return ""
    prefix = strs[0]
    for string in strs[1:]:
        while string[:len(prefix)] != prefix:
            prefix = prefix[:-1]
            if not prefix:
                return ""
    return prefix

print(longest_common_prefix(["flower", "flow", "flight"])) # Output: "fl"

```

To print the largest odd:

```

# 3. Print the largest odd number from a list
def largest_odd(nums):
    odds = [num for num in nums if num % 2 == 1]
    return max(odds) if odds else None

print(largest_odd([10, 15, 3, 22, 5])) # Output: 15

```

## Longest common substring:

```
# 4. Find the longest common substring
def longest_common_substring(s1, s2):
    m, n = len(s1), len(s2)
    dp = [[0] * (n+1) for _ in range(m+1)]
    max_length = 0
    end_idx = 0

    for i in range(1, m+1):
        for j in range(1, n+1):
            if s1[i-1] == s2[j-1]:
                dp[i][j] = dp[i-1][j-1] + 1
                if dp[i][j] > max_length:
                    max_length = dp[i][j]
                    end_idx = i
    return s1[end_idx - max_length:end_idx]

print(longest_common_substring("abcde", "bcdf")) # Output: "bcd"
```