```
ain.py
                                                                                         Output
                                                                               Run
                                                                                       Indices of the two numbers that add up to 9 are: [0, 1]
def twoSum(nums, target):
     num_dict = {}
     for i, num in enumerate(nums):
                                                                                       === Code Execution Successful ===
         if num in num_dict:
             return [num_dict[num], i]
         else:
            num_dict[target - num] = i
    return []
# Example usage:
 nums = [2,7,11,15]
 target = 9
 result = twoSum(nums, target)
 print("Indices of the two numbers that add up to", target, "are:", result)
```

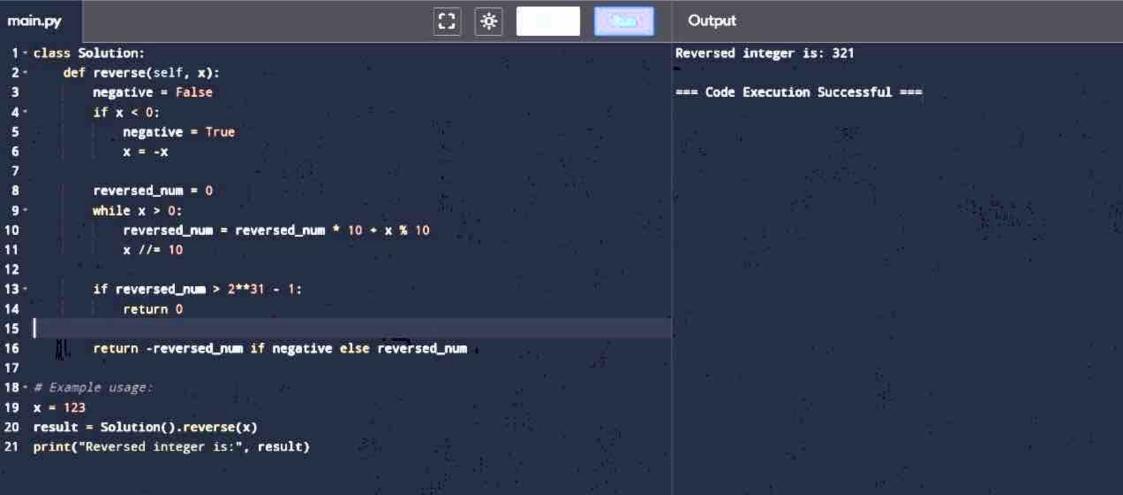
```
-0-
nain.py
                                                                                           Output
                                                                      Save
                                                                                 Run
1 class ListNode:
                                                                                         Sum of the two numbers is:
                                                                                         7 0 8
      def __init__(self, val=0, next=None):
          self.val = val
                                                                                         === Code Execution Successful ===
          self.next = next
6 def addTwoNumbers(11, 12):
      dummy = ListNode(0)
      current = dummy
      carry = 0
      while 11 or 12 or carry:
          sum_val = carry
          if 11:
              sum_val += 11.val
              11 = 11.next
          if 12:
              sum_val += 12.val
              12 = 12.next
          carry = sum_val // 10
          current.next = ListNode(sum_val % 10)
          current = current.next
      return dummy.next
5 - # Example usage:
6 11 = ListNode(2, ListNode(4, ListNode(3)))
7 12 = ListNode(5, ListNode(6, ListNode(4)))
```

```
TI HOT S:
                                                                           === Code Execution Successful ===
    return 0
char_index_map = {}
max_length = 0
start = 0
for end in range(len(s)):
    if s[end] in char_index_map:
        start = max(start, char_index_map[s[end]] + 1)
    char_index_map[s[end]] = end
    max_length = max(max_length, end - start + 1)
return max length
```

```
def findMedianSortedArrays(self, nums1, nums2):
   if len(nums1) > len(nums2):
       nums1, nums2 = nums2, nums1
  x, y = len(nums1), len(nums2)
  low, high = 0, x
  while low <= high:
     partition_x = (low + high) // 2
     partition_y = (x + y + 1) // 2 - partition_x
    max_left_x = float('-inf') if partition_x == 0 else nums1[partition_x
        - 11
    min_right_x = float('inf') if partition_x == x else nums1[partition_x]
   max_left_y = float('-inf') if partition_y == 0 else nums2[partition_y
       - 11
   min_right_y = float('inf') if partition_y == y else nums2[partition_y]
  if max_left_x <= min_right_y and max_left_y <= min_right_x:</pre>
      if (x + y) \% 2 == 0:
          return (max(max_left_x, max_left_y) + min(min_right_x,
              min_right_y)) / 2
      else:
          return max(max_left_x, max_left_y)
```

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nain.py
                                                                                          Output
                                                                      Suve
                                                                                Run
1 def longestPalindrome(s):
                                                                                         Longest palindromic substring is: bab
      n = len(s)
                                                                                         === Code Execution Successful ===
      if n <= 1:
          return s
      start = 0
      maxLength = 1
      def expandAroundCenter(left, right):
          while left >= 0 and right < n and s[left] == s[right]:
              left -= 1
              right += 1
          return right - left - 1
      for i in range(n):
          len1 = expandAroundCenter(i, i)
          len2 = expandAroundCenter(i, i + 1)
          currlen = max(len1, len2)
          if currLen > maxLength:
              maxLength = currLen
              start = i - (currLen - 1) // 2
      return s[start:start + maxLength]
5 * # Example usage:
6 input_string = "babad"
7 result = longestPalindrome(input_string)
8 print("Longest palindromic substring is:", result)
```

```
o.
                                                                                         Output
nain.py
1 def convert(s, numRows):
                                                                                        Zigzag conversion of PAYPALISHIRING with 3 rows is: PAHNAPLSIIGYIR
      if numRows == 1 or numRows >= len(s):
                                                                                        === Code Execution Successful ===
          return s
      result = [''] * numRows
      index, step = 0, 1
      for char in s:
          result[index] += char
          if index == 0:
              step = 1
          elif index == numRows - 1:
             step = -1
          index += step
      return ''.join(result)
- # Example usage:
 s = "PAYPALISHIRING"
D numRows = 3
1 result = convert(s, numRows)
2 print("Zigzag conversion of", s, "with", numRows, "rows is:", result)
```



```
53
                                                  0
                                                          Save
                                                                    Run
                                                                             Output
lution:
myAtoi(self, s):
                                                                           String to integer conversion is: -42
s = s.strip()
if not s:
                                                                           === Code Execution Successful ===
   return 0
sign = 1
if s[0] in [ - , - ]:
   sign = -1 if s[0] == '-' else 1
   s = s[1:]
result = 0
for char in s:
    if char.isdigit():
        result = result * 10 * int(char)
    else:
        break
result *= sign
if result < -2**31:
     return -2**31
elif result > 2**31 - 1:
     return 2**31 - 1
 else:
     return result
nle usage:
```



```
lution:
isMatch(self, s: str, p: str) -> bool:
m, n = len(s), len(p)
dp = [[False] * (n + 1) for _ in range(m + 1)]
dp[0][0] = True
for j in range(1, n + 1):
    if p[j - 1] == '*':
        dp[0][j] = dp[0][j - 2]
for i in range(1, m + 1):
     for j in range(1, n + 1):
         if p[j = 1] == '*':
             dp[i][j] = dp[i][j - 2] or (dp[i - 1][j]) and (s[i - 1]) == p[j - 1]
                 2] or p[j - 2] == '.'))
         else:
             dp[i][j] = dp[i - 1][j - 1] and (s[i - 1] == p[j - 1] or p[j - 1]
                 1] == ',')
```