

Online C++ Compiler - online c++

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main.py

```
1- def myAtoi(s: str) -> int:
2-     INT_MAX = 2**31 - 1
3-     INT_MIN = -2**31
4-
5-
6-     i = 0
7-     n = len(s)
8-     while i < n and s[i] == ' ':
9-         i += 1
10-
11-
12-     sign = 1
13-     if i < n and (s[i] == '+' or s[i] == '-'):
14-         if s[i] == '-':
15-             sign = -1
16-         i += 1
17-
18-
19-     result = 0
20-     while i < n and s[i].isdigit():
21-         digit = int(s[i])
22-         if result > (INT_MAX - digit) // 10:
23-             return INT_MAX if sign == 1 else INT_MIN
24-
25-         result = result * 10 + digit
26-         i += 1
```

input

4193

0

-2147483648

...Program finished with exit code 0

Press ENTER to exit console.

Ready for fun?


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10:31 AM

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Language Python 3  


main.py

```
1 def two_sum(nums, target):
2     num_to_index = {}
3     for i, num in enumerate(nums):
4         complement = target - num
5
6         if complement in num_to_index:
7             return [num_to_index[complement], i]
8
9         num_to_index[num] = i
10
11     return []
12 nums = [2, 7, 11, 15]
13 target = 9
14 print(two_sum(nums, target))
15
```

input

[0, 1]

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Language Python 3


main.py

```
1 class Solution:
2     def longestPalindrome(self, s: str) -> str:
3         def expandAroundCenter(left, right):
4             while left >= 0 and right < len(s) and s[left] == s[right]:
5                 left -= 1
6                 right += 1
7             return s[left + 1:right]
8
9         if len(s) == 0:
10             return ""
11
12         longest = ""
13         for i in range(len(s)):
14             odd_palindrome = expandAroundCenter(i, i)
15             even_palindrome = expandAroundCenter(i, i + 1)
16
17             longest = max(longest, odd_palindrome, even_palindrome, key=len)
18
19         return longest
20
21 s = "babad"
22 solution = Solution()
23 print(solution.longestPalindrome(s))
24
25
```


input

bab

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main.py

```
1 def findMedianSortedArrays(nums1, nums2):
2     nums = sorted(nums1 + nums2)
3     n = len(nums)
4     if n % 2 == 0:
5         return (nums[n // 2 - 1] + nums[n // 2]) / 2
6     else:
7         return nums[n // 2]
8
9
10 nums1 = [1, 3]
11 nums2 = [2]
12 print(findMedianSortedArrays(nums1, nums2))
13
```

input

```
2
...Program finished with exit code 0
Press ENTER to exit console.
```

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Language Python 3  


main.py

```
1- def length_of_longest_substring(s):
2-     start = maxLength = 0
3-     usedChars = {}
4-
5-     for i in range(len(s)):
6-         if s[i] in usedChars and start <= usedChars[s[i]]:
7-             start = usedChars[s[i]] + 1
8-         else:
9-             maxLength = max(maxLength, i - start + 1)
10-
11-         usedChars[s[i]] = i
12-
13-     return maxLength
14-
15- s = "abcabcbb"
16- print(length_of_longest_substring(s))
17-
18-
```


input

3

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Language Python 3  

main.py

```
1 class ListNode:
2     def __init__(self, val=0, next=None):
3         self.val = val
4         self.next = next
5
6 def add_two_numbers(l1, l2):
7     dummy_head = ListNode(0)
8     current = dummy_head
9     carry = 0
10
11 while l1 or l2 or carry:
12     val1 = l1.val if l1 else 0
13     val2 = l2.val if l2 else 0
14     total = val1 + val2 + carry
15
16     carry = total // 10
17     current.next = ListNode(total % 10)
18     current = current.next
19     if l1:
20         l1 = l1.next
21     if l2:
22         l2 = l2.next
23
24 return dummy_head.next
25
26 def create_linked_list(values):
```

input

```
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```

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Language Python 3  

main.py

```
1 def convert(s, numRows):
2     if numRows == 1 or numRows >= len(s):
3         return s
4
5     rows = [''] * numRows
6     index, step = 0, 1
7
8     for char in s:
9         rows[index] += char
10        if index == 0:
11            step = 1
12        elif index == numRows - 1:
13            step = -1
14        index += step
15
16    return ''.join(rows)
17
18 s = "PAYPALISHIRING"
19 numRows = 3
20 output = convert(s, numRows)
21 print(output)
22
23
```

input

PAHNAPLSIIGYIR

...Program finished with exit code 0
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Language Python 3  

main.py

```
1 class Solution:
2     def reverse(self, x: int) -> int:
3         if x < 0:
4             sign = -1
5         else:
6             sign = 1
7         x = abs(x)
8         reverse_x = int(str(x)[::-1])
9         if reverse_x > 2**31 - 1:
10             return 0
11         return sign * reverse_x
12
13
```

input

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main.py

```
1- def isPalindrome(x: int) -> bool:
2-
3-     if x < 0:
4-         return False
5-
6-
7-     s = str(x)
8-
9-     return s == s[::-1]
10
11
12 print(isPalindrome(121))
13 print(isPalindrome(-121))
14 print(isPalindrome(10))
15
16
17
18
19
```

input

True
False
False

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main.py

```
1 class Solution:
2     def isMatch(self, s: str, p: str) -> bool:
3         if not p:
4             return not s
5
6         first_match = bool(s) and p[0] in {s[0], '.'}
7
8         if len(p) >= 2 and p[1] == '*':
9             return (self.isMatch(s, p[2:]) or
10                    first_match and self.isMatch(s[1:], p))
11         else:
12             return first_match and self.isMatch(s[1:], p[1:])
13
14 solution = Solution()
15 s = "aa"
16 p = "a"
17 print(solution.isMatch(s, p))
18
19
```

input

False

...Program finished with exit code 0
Press ENTER to exit console.