

OnlineGDB beta
online compiler and debugger for c/c++

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main.py

Run Debug Stop Share Save Beauty

Language Python 3

```
1 from collections import deque
2
3 def update_matrix(mat):
4     if not mat or not mat[0]:
5         return []
6
7     m, n = len(mat), len(mat[0])
8     distances = [[float('inf')] * n for _ in range(m)]
9     queue = deque()
10
11
12     for i in range(m):
13         for j in range(n):
14             if mat[i][j] == 0:
15                 distances[i][j] = 0
16                 queue.append((i, j))
17
18     directions = [(-1, 0), (1, 0), (0, -1), (0, 1)]
19
20     while queue:
21         x, y = queue.popleft()
22         for dx, dy in directions:
23             nx, ny = x + dx, y + dy
24             if 0 <= nx < m and 0 <= ny < n and distances[nx][ny] > distances[x][y] + 1:
25                 distances[nx][ny] = distances[x][y] + 1
26                 queue.append((nx, ny))
27
28     return distances
```

Input

```
[[0, 0, 0], [0, 1, 0], [0, 0, 0]]
[[0, 0, 0], [0, 1, 0], [1, 2, 1]]
```

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

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Minimum Length After P | x

https://www.onlinegdb.com/online_c++_compiler

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main.py

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Language Python 3

```
1 def min_length_after_operations(nums):
2     n = len(nums)
3     max_pairs = n // 2
4
5     min_length = n - 2 * max_pairs
6
7     return min_length
8
9 nums = [1, 2, 3, 4]
10 print(min_length_after_operations(nums))
11
```

Input

```
0
```

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main.py

```
1 def find_substrings(words):
2     result = []
3     for i in range(len(words)):
4         for j in range(len(words)):
5             if i != j and words[i] in words[j]:
6                 result.append(words[i])
7                 break
8     return result
9
10 words = ["mass", "as", "hero", "superhero"]
11 print(find_substrings(words))
12
13
```

input

```
['as', 'hero']

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

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main.py

```
1 from bisect import bisect_right
2 from functools import lru_cache
3
4 def min_operations_to_make_increasing(arr1, arr2):
5     arr2 = sorted(arr2)
6
7     @lru_cache(None)
8     def dp(i, prev):
9         if i == len(arr1):
10             return 0
11
12         op1 = float('inf')
13         if arr1[i] > prev:
14             op1 = dp(i + 1, arr1[i])
15
16         idx = bisect_right(arr2, prev)
17         op2 = float('inf')
18         if idx < len(arr2):
19             op2 = 1 + dp(i + 1, arr2[idx])
20
21         return min(op1, op2)
22
23 result = dp(0, float('-inf'))
24 return result if result < float('inf') else -1
25
26 arr1 = [1, 5, 3, 6, 7]
27 arr2 = [1, 3, 2, 4]
```

input

```
1

...Program finished with exit code 0
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```

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main.py

```
1 def repeated_string_match(a, b):
2     if b in a:
3         return 1
4
5     n = len(b) // len(a) + 2
6
7     for i in range(1, n + 1):
8         if b in a * i:
9             return i
10
11     return -1
12
13 a = "abcd"
14 b = "cdabcdab"
15 print(repeated_string_match(a, b))
16
17
18
19
```

input

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

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main.py

```
1 def missing_number(nums):
2     n = len(nums)
3     sum_expected = n * (n + 1) // 2
4     sum_actual = sum(nums)
5     return sum_expected - sum_actual
6
7 nums = [3, 0, 1]
8 print(missing_number(nums))
9
10
11
12
```

input

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

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main.py

```
1 def max_3x3_submatrix(grid):
2     n = len(grid)
3     maxLocal = [[0] * (n - 2) for _ in range(n - 2)]
4
5     for i in range(n - 2):
6         for j in range(n - 2):
7             max_val = float('-inf')
8             for di in range(3):
9                 for dj in range(3):
10                     max_val = max(max_val, grid[i + di][j + dj])
11             maxLocal[i][j] = max_val
12
13     return maxLocal
14
15 grid = [
16     [9, 9, 8, 1],
17     [5, 6, 2, 6],
18     [8, 2, 6, 4],
19     [6, 2, 2, 2]
20 ]
21 print(max_3x3_submatrix(grid))
22
```

Input

[[9, 9], [8, 6]]

...Program finished with exit code 0
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main.py

```
1 def count_prefix(words, pref):
2     count = 0
3     for word in words:
4         if word.startswith(pref):
5             count += 1
6     return count
7
8 words = ["pay", "attention", "practice", "attend"]
9 pref = "at"
10 print(count_prefix(words, pref))
11
12
13
```

Input

2

...Program finished with exit code 0
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main.py

```
1 def set_zeroes(matrix):  
2     if not matrix:  
3         return  
4  
5     m, n = len(matrix), len(matrix[0])  
6     zero_rows = set()  
7     zero_cols = set()  
8  
9     for i in range(m):  
10        for j in range(n):  
11            if matrix[i][j] == 0:  
12                zero_rows.add(i)  
13                zero_cols.add(j)  
14  
15        for i in range(m):  
16            for j in range(n):  
17                if i in zero_rows or j in zero_cols:  
18                    matrix[i][j] = 0  
19  
20 matrix = [  
21     [1, 1, 1],  
22     [1, 0, 1],  
23     [1, 1, 1]  
24 ]  
25 set_zeroes(matrix)  
26 print(matrix)  
27  
28
```

Input

```
[[1, 0, 1], [0, 0, 0], [1, 0, 1]]  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

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main.py

```
1 def intersection(nums1, nums2):  
2     set1 = set(nums1)  
3     set2 = set(nums2)  
4     return list(set1 & set2)  
5  
6 nums1 = [1, 2, 2, 1]  
7 nums2 = [2, 2]  
8 print(intersection(nums1, nums2))  
9  
10 nums1 = [4, 9, 5]  
11 nums2 = [9, 4, 9, 8, 4]  
12 print(intersection(nums1, nums2))  
13  
14  
15  
16
```

Input

```
[2]  
[9, 4]  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

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main.py

```
1 def minimumLength(nums):
2
3     import bisect
4     lis = []
5     for num in nums:
6         pos = bisect.bisect_left(lis, num)
7         if pos < len(lis):
8             lis[pos] = num
9         else:
10            lis.append(num)
11
12    return len(nums) - len(lis)
13
14 nums1 = [1, 2, 3, 4]
15 print(minimumLength(nums1))
16
17
18
19
20
21
22
```

Input

0

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

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main.py

```
1 def isPrefixOfWord(sentence, searchWord):
2     words = sentence.split()
3     for i, word in enumerate(words):
4         if word.startswith(searchWord):
5             return i + 1 # return 1-i# Example 1
6
7 sentence1 = "i love eating burger"
8 searchWord1 = "burg"
9 print(isPrefixOfWord(sentence1, searchWord1)) # Output: 4
10
11 sentence2 = "this problem is an example"
12 searchWord2 = "apple"
13 print(isPrefixOfWord(sentence2, searchWord2)) # Output: -1
14 ndexed position
15 return -1
16
17
18
19
20
21
22
23
```

Input

File "/home/main.py", line 14
ndexed position
^^^^^^
SyntaxError: invalid syntax

...Program finished with exit code 1
Press ENTER to exit console.

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main.py

```
1 def transpose(matrix):
2     rows = len(matrix)
3     cols = len(matrix[0])
4
5     transposed = [[0] * rows for _ in range(cols)]
6
7     for i in range(rows):
8         for j in range(cols):
9             transposed[j][i] = matrix[i][j]
10
11     return transposed
12
13
14
15 matrix1 = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]
16 print(transpose(matrix1))
17
18 matrix2 = [[1, 2, 3], [4, 5, 6]]
19 print(transpose(matrix2))
20
21
22
23
24
25
```

Input

```
[[1, 4, 7], [2, 5, 8], [3, 6, 9]]
[[1, 4], [2, 5], [3, 6]]

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

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main.py

```
1 def findNthDigit(n):
2
3     digit_count = 9
4     digits = 1
5     start = 1
6
7     while n > digit_count * digits:
8         n -= digit_count * digits
9         digits += 1
10        start *= 10
11        digit_count = 9 * start * digits
12
13    num = start + (n - 1) // digits
14    digit_index = (n - 1) % digits
15
16    return int(str(num)[digit_index])
17
18
19 print(findNthDigit(3))
20 print(findNthDigit(11))
21
22
23
24
25
26
```

Input

```
3
0

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