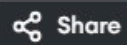




main.py



Run

Output

Clear

```
1 def count_ways(num_sides, num_dice, target):
2     dp = [[0] * (target + 1) for _ in range(num_dice + 1)]
3     dp[0][0] = 1
4
5     for dice in range(1, num_dice + 1):
6         for sum_value in range(1, target + 1):
7             for side in range(1, num_sides + 1):
8                 if sum_value - side >= 0:
9                     dp[dice][sum_value] += dp[dice - 1][sum_value -
                                side]
10
11     return dp[num_dice][target]
12 num_sides_1 = 6
13 num_dice_1 = 2
14 target_1 = 7
15 result_1 = count_ways(num_sides_1, num_dice_1, target_1)
16 print(f"Number of ways to reach sum {target_1}: {result_1}")
17
```

Number of ways to reach sum 7: 6

=== Code Execution Successful ===



Search

ENG
IN9:48 AM
10/16/2024



Skip Ad ▶

Programiz PRO >



main.py



Share

Run

Output

Clear

```
1 def min_time(n, a1, a2, t1, t2, e1, e2, x1, x2):
2     dp1 = [0] * n
3     dp2 = [0] * n
4     dp1[0] = e1 + a1[0]
5     dp2[0] = e2 + a2[0]
6     for i in range(1, n):
7         dp1[i] = min(dp1[i-1] + a1[i], dp2[i-1] + t2[i-1] + a1[i])
8         dp2[i] = min(dp2[i-1] + a2[i], dp1[i-1] + t1[i-1] + a2[i])
9     return min(dp1[n-1] + x1, dp2[n-1] + x2)
10 n = 4
11 a1 = [7, 9, 3, 4]
12 a2 = [8, 5, 6, 4]
13 t1 = [2, 3, 1]
14 t2 = [2, 1, 2]
15 e1 = 2
16 e2 = 4
17 x1 = 3
18 x2 = 2
19 result = min_time(n, a1, a2, t1, t2, e1, e2, x1, x2)
20 print(result)
21
```

27

=== Code Execution Successful ===

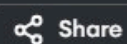


Search

ENG
IN9:50 AM
10/16/2024



main.py



Run

Output

Clear

```
1 import itertools
2 def calculate_min_path_distance(matrix):
3     n = len(matrix)
4     min_distance = float('inf')
5     for perm in itertools.permutations(range(n)):
6         current_distance = 0
7         for i in range(n - 1):
8             current_distance += matrix[perm[i]][perm[i + 1]]
9             current_distance += matrix[perm[-1]][perm[0]] # Return to
              starting point
10        min_distance = min(min_distance, current_distance)
11    return min_distance
12 matrix = [
13     [0, 10, 15, 20],
14     [10, 0, 35, 25],
15     [15, 35, 0, 30],
16     [20, 25, 30, 0]
17 ]
18 output = calculate_min_path_distance(matrix)
19 print(output)
20
```

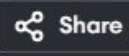
80

=== Code Execution Successful ===





main.py



Output

Clear

```
1 import itertools
2 distances = {
3     ('A', 'B'): 10,
4     ('A', 'C'): 15,
5     ('A', 'D'): 20,
6     ('A', 'E'): 25,
7     ('B', 'C'): 35,
8     ('B', 'D'): 25,
9     ('B', 'E'): 30,
10    ('C', 'D'): 30,
11    ('C', 'E'): 20,
12    ('D', 'E'): 15
13 }
14 def calculate_distance(route):
15     total_distance = 0
16     for i in range(len(route) - 1):
17         total_distance += distances.get((route[i], route[i + 1]), 0)
18     total_distance += distances.get((route[-1], route[0]), 0)
19     return total_distance
20 cities = ['A', 'B', 'C', 'D', 'E']
21 all_routes = itertools.permutations(cities)
22 shortest_route = None
```

The shortest route is: A -> E -> D -> C -> B with a total distance of 25.

=== Code Execution Successful ===

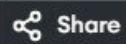
77°F
Cloudy

Search

ENG
IN10:12 AM
10/16/2024



main.py



Run

Output

Clear

```
1 def longest_palindrome(s: str) -> str:
2     if len(s) < 1:
3         return ""
4     start, end = 0, 0
5     for i in range(len(s)):
6         len1 = expand_around_center(s, i, i)
7         len2 = expand_around_center(s, i, i + 1)
8         max_len = max(len1, len2)
9
10        if max_len > end - start:
11            start = i - (max_len - 1) // 2
12            end = i + max_len // 2
13    return s[start:end + 1]
14 def expand_around_center(s: str, left: int, right: int) -> int:
15     while left >= 0 and right < len(s) and s[left] == s[right]:
16         left -= 1
17         right += 1
18    return right - left - 1
19 s = "babad"
20 result = longest_palindrome(s)
21 print(result)
22
```

aba

=== Code Execution Successful ===



Breaking news
Georgia judge b...



Search

ENG
IN

10:19 AM
10/16/2024



main.py



Run

Output

Clear

```
1 def length_of_longest_substring(s: str) -> int:
2     char_index = {}
3     max_length = start = 0
4     for index, char in enumerate(s):
5         if char in char_index and char_index[char] >= start:
6             start = char_index[char] + 1
7         char_index[char] = index
8         max_length = max(max_length, index - start + 1)
9
10    return max_length
11 s = "abcabcbb"
12 print(length_of_longest_substring(s)) # Output: 3
13
```

3

=== Code Execution Successful ===





main.py



Run

Output

Clear

```
1 def wordBreak(s, wordDict):
2     word_set = set(wordDict)
3     dp = [False] * (len(s) + 1)
4     dp[0] = True
5     for i in range(1, len(s) + 1):
6         for j in range(i):
7             if dp[j] and s[j:i] in word_set:
8                 dp[i] = True
9                 break
10
11     return dp[len(s)]
12 s = "leetcode"
13 wordDict = ["leet", "code"]
14 print(wordBreak(s, wordDict))
15
16
```

True

=== Code Execution Successful ===

JS

GO

PHP



Strahans Road
Closed road



Search

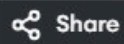
ENG
IN

10:22 AM
10/16/2024





main.py



Share

Run

Output

Clear

```
1 def word_break(s, word_dict):
2     n = len(s)
3     dp = [False] * (n + 1)
4     dp[0] = True
5     for i in range(1, n + 1):
6         for j in range(i):
7             if dp[j] and s[j:i] in word_dict:
8                 dp[i] = True
9                 break
10    return "Yes" if dp[n] else "No"
11 word_dict = {"i", "like", "sam", "sung", "samsung", "mobile", "ice",
12             "cream", "icecream", "man", "go", "mango"}
13 input_string = "ilike"
14 output = word_break(input_string, word_dict)
15 print(output)
```

Yes

=== Code Execution Successful ===

JS

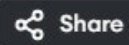
GO

PHP





main.py



Run

Output

Clear

```
1 def fullJustify(words, maxWidth):
2     res, cur, num_of_letters = [], [], 0
3     for w in words:
4         if num_of_letters + len(w) + len(cur) > maxWidth:
5             for i in range(maxWidth - num_of_letters):
6                 cur[i % (len(cur) - 1 or 1)] += ' '
7             res.append(''.join(cur))
8             cur, num_of_letters = [], 0
9         cur += [w]
10        num_of_letters += len(w)
11
12    return res + [' '.join(cur).ljust(maxWidth)]
13 words = ["This", "is", "an", "example", "of", "text", "justification"]
14
15 maxWidth = 16
16 output = fullJustify(words, maxWidth)
17 print(output)
```

```
['This   is   an', 'example of text', 'justification. ']
```

```
=== Code Execution Successful ===
```





main.py



Share

Run

Output

Clear

```
1 class WordFilter:
2
3     def __init__(self, words):
4         self.words = words
5         self.prefix_suffix_map = {}
6         for index, word in enumerate(words):
7             for i in range(len(word) + 1):
8                 for j in range(len(word) + 1):
9                     prefix = word[:i]
10                    suffix = word[j:]
11                    self.prefix_suffix_map[(prefix, suffix)] = index
12
13     def f(self, pref, suff):
14         return self.prefix_suffix_map.get((pref, suff), -1)
15 wordFilter = WordFilter(["apple"])
16 result = wordFilter.f("a", "e")
17 print(result)
```

0

=== Code Execution Successful ===

CLE - NYV
Game score

Search

ENG
IN10:28 AM
10/16/2024