




Lesson 14

Problem solving

Python Hybrid - Spring 2025



Challenges in Codewars / Leetcode / Hackerrank

Example in Codewars

Kata Training

8 kyu Sum of positive ✓

☆ 2099 546 93% of 21,437 99,549 of 327,507 JbPasquier

Instructions Output Past Solutions

Task

You get an array of numbers, return the sum of all of the positives ones.

Example

- `[1, -4, 7, 12]` => `1 + 7 + 12 = 20`

Note

If there is nothing to sum, the sum is default to `0`.

ARRAYS FUNDAMENTALS

built on Qualified by andela

Python 3.11

VIM EMACS

Solution

```
1 def positive_sum(arr):
2     # Your code here
3     return 0
4
```

Write your code here and return the output

Sample Tests

```
1 import codewars_test as test
2 from solution import positive_sum
3
4 @test.describe("positive_sum")
5 def fixed_tests():
6     @test.it('Basic Test Cases')
7     def basic_test_cases():
8         test.assert_equals(positive_sum([1,2,3,4,5]),15)
9         test.assert_equals(positive_sum([1,-2,3,4,5]),13)
```

Different test cases and the inputs

SKIP VIEW SOLUTIONS DISCUSS (148) RESET TEST ATTEMPT

You can also code, debug and test locally

```
1  from typing import List
2
3  class Solution:
4      def twoSum(self, nums: List[int], target: int) -> List[int]:
5          # my code goes here
6          return "hello"
7
8  test_cases = [
9      ([2,7,11,15], 9),
10     ([3,2,4], 6),
11     ([3,3], 6)
12 ]
13
14 my_solution = Solution()
15 for test_case in test_cases:
16     nums, target = test_case
17     print(my_solution.twoSum(nums, target))
18
```

Today's problems

Warming-up:

- Sum of positive numbers

<https://www.codewars.com/kata/5715eaedb436cf5606000381>

- Sum of two lowest positive integers

<https://www.codewars.com/kata/558fc85d8fd1938afb000014>

- Abbreviate a Two Word Name

<https://www.codewars.com/kata/57eadb7ecd143f4c9c0000a3>

- Sum Mixed Array

<https://www.codewars.com/kata/57eaeb9578748ff92a000009>

Today's problems

More advanced:

- Detect Pangram

<https://www.codewars.com/kata/545cedaa9943f7fe7b000048>

- Find Count of Most Frequent Item in an Array

<https://www.codewars.com/kata/56582133c932d8239900002e>

- Split The Bill

<https://www.codewars.com/kata/5641275f07335295f10000d0>

- Sorting by bits

<https://www.codewars.com/kata/59fa8e2646d8433ee200003f>

Today's problems

In groups:

- N smallest elements in original order

<https://www.codewars.com/kata/5aec1ed7de4c7f3517000079>

- Sum Groups

<https://www.codewars.com/kata/58b3c2bd917a5caec0000017>

- Transpose of a Matrix

<https://www.codewars.com/kata/559656796d8fb52e17000003>

Self-practice challenges

- Codewars Python challenges

- Hackerrank Python challenges

<https://www.hackerrank.com/domains/python>

[Hackerrank problem solving](#)

- LeetCode Programming Skills

<https://leetcode.com/studyplan/programming-skills/>

Before you go...

Please take 2 minutes to give us
feedback on today's lesson.

This feedback is **anonymous** and only
seen by **the DCP team**!



Scan the QR code or go to:
<https://redischool.typeform.com/lessonfeedback>

Thank you for your attention!

See you next class!