ReDI School of Digital Integration

Lesson 14

Problem solving

Python Hybrid - Spring 2025

Challenges in Codewars / Leetcode / Hackerrank

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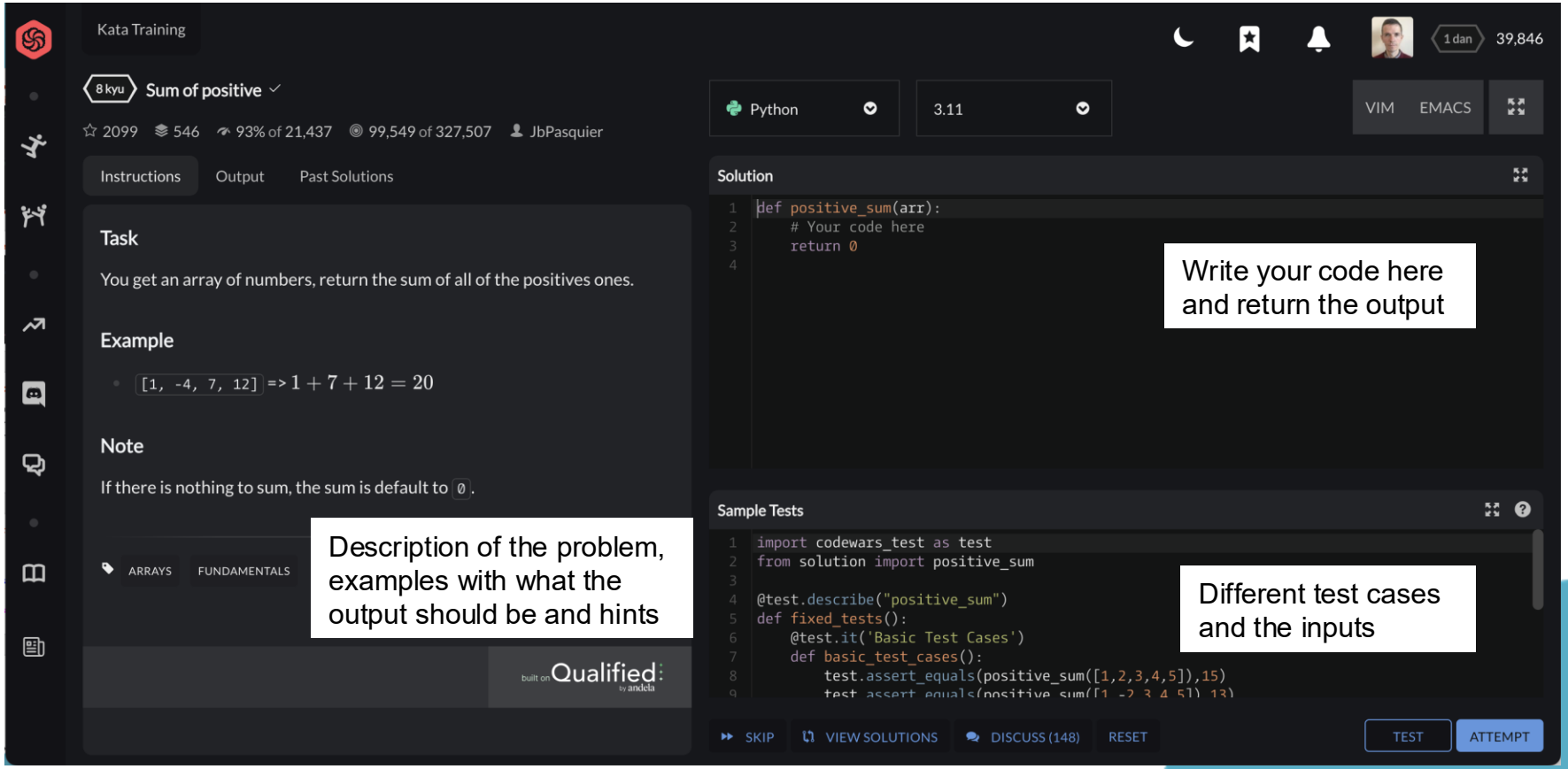
Example in Codewars



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You can also code, debug and test locally

```python
from typing import List

class Solution:
    def twoSum(self, nums: List[int], target: int) -> List[int]:
        # my code goes here
        return "hello"

test_cases = [
    ([2,7,11,15], 9),
    ([3,2,4], 6),
    ([3,3], 6)
]

my_solution = Solution()
for test_case in test_cases:
    nums, target = test_case
    print(my_solution.twoSum(nums, target))

```

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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

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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/

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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!