HumanEvalPack

Languages: Python, JavaScript, Java, Go, C++, Rust

Subtasks: HumanEvalFix, HumanEvalExplain, HumanEvalSynthesize

Metric: Pass@k Creation: Humans

Fix Code

from typing import List def has close elements(numbers: List[float], threshold: float) -> for idx, elem in enumerate(numbers): for idx2, elem2 in enumerate(numbers): if idx != idx2: distance = elem - elem2 if distance < threshold: return True return False def check(has close elements): assert has close elements([1.0, 2.0, 3.9, 4.0, 5.0, 2.2], 0.3) == assert has close elements([1.0, 2.0, 3.9, 4.0, 5.0, 2.2], 0.05) == False assert has close elements([1.0, 2.0, 5.9, 4.0, 5.0], 0.95) == True assert has close elements([1.0, 2.0, 5.9, 4.0, 5.0], 0.8) == False assert has close elements([1.0, 2.0, 3.0, 4.0, 5.0, 2.0], 0.1) == True assert has close elements([1.1, 2.2, 3.1, 4.1, 5.1], 1.0) == True assert has close_elements([1.1, 2.2, 3.1, 4.1, 5.1], 0.5) == False check(has close elements) Fix bugs in has close elements. from typing import List def has close elements(numbers: List[float], threshold: float) -> for idx, elem in enumerate(numbers): for idx2, elem2 in enumerate(numbers): if idx != idx2: distance = abs(elem - elem2) if distance < threshold:

return True

return False

Explain Code

```
from typing import List
def has close elements(numbers: List[float], threshold: float) ->
bool:for idx, elem in enumerate(numbers):
    for idx2, elem2 in enumerate(numbers):
       if idx != idx2:
          distance = abs(elem - elem2)
          if distance < threshold:
            return True
  return False
Provide a concise natural language description of the function using
at most 213 characters.
Check if in given list of numbers, are any two numbers closer to
each other than given threshold.
>>> has close elements([1.0, 2.0, 3.0], 0.5)
False
>>> has close elements([1.0, 2.8, 3.0, 4.0, 5.0, 2.0], 0.3)
True
Check if in given list of numbers, are any..
Write functional code in Python according to the description.
from typing import List
def has close elements(numbers: List[float], threshold: float) ->
  for idx, elem in enumerate(numbers):
    for idx2, elem2 in enumerate(numbers):
       if idx != idx2:
          distance = abs(elem - elem2)
          if distance < threshold:
            return True
  return False
```

Synthesize Code

```
Write a Python function 'has close elements(numbers: List[float].
threshold: float) -> bool` to solve the following problem:
Check if in given list of numbers, are any two numbers closer to
each other than given threshold.
>>> has close elements([1.0, 2.0, 3.0], 0.5)
False
>>> has close_elements([1.0, 2.8, 3.0, 4.0, 5.0, 2.0], 0.3)
from typing import List
def has close elements(numbers: List[float], threshold: float) ->
  """ Check if in given list of numbers, are any two numbers closer
to each other than given threshold.
  >>> has close elements([1.0, 2.0, 3.0], 0.5)
  False
  >>> has close elements([1.0, 2.8, 3.0, 4.0, 5.0, 2.0], 0.3)
  True
  for idx, elem in enumerate(numbers):
    for idx2, elem2 in enumerate(numbers):
       if idx != idx2:
          distance = abs(elem - elem2)
          if distance < threshold:
            return True
  return False
```



Model Input



Target Output