**6 kyu**

**Summarize ranges**

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Given a sorted array of numbers, return the summary of its ranges.

Examples

summary\_ranges([1, 2, 3, 4]) == ["1->4"]

summary\_ranges([1, 1, 1, 1, 1]) == ["1"]

summary\_ranges([0, 1, 2, 5, 6, 9]) == ["0->2", "5->6", "9"]

summary\_ranges([0, 1, 2, 3, 3, 3, 4, 5, 6, 7]) == ["0->7"]

summary\_ranges([0, 1, 2, 3, 3, 3, 4, 4, 5, 6, 7, 7, 9, 9, 10]) == ["0->7", "9->10"]

summary\_ranges([-2, 0, 1, 2, 3, 3, 3, 4, 4, 5, 6, 7, 7, 9, 9, 10, 12]) == ["-2", "0->7", "9->10", "12"]

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**def** summary\_ranges(nums):

*#your code here*

    i = 0

    result = []

**while**(i < len(nums)):

        start = nums[i]

**while**(i + 1 < len(nums) **and** nums[i+1] - nums[i] <= 1): i+=1

        end = nums[i]

**if**(start == end):

            result.append(str(start) +",")

**else**:

            result.append(str(start) + "->" + str(end) + ",")

        i+=1

**return** result

arr = [-2, 0, 1, 2, 3, 3, 3, 4, 4, 5, 6, 7, 7, 9, 9, 10, 12]

**print**( summary\_ranges(arr) )