**CHALLENGE 2**

*Check something on array elements*

**Problem**

We want to check that an array is composed of numbers 3 **only.**

|  |  |
| --- | --- |
| INPUT | Array of 5 integers |
| OUTPUT | "only 3" or "not only 3" |

**Examples**

|  |  |
| --- | --- |
| INPUT | OUTPUT |
| {3, 3, 3, 3, 3} | only 3 |
| {3, 3, 3, 1, 3} | not only 3 |

You don’t **need to code**, but to **reflect** on your strategy

**PART A - Strategy Analysis**

|  |  |
| --- | --- |
| BEFORE THE LOOP | ***Q1 -*** *Do you have* ***any variable to initialize*** *before looping on array elements?*  Yes, the array to store the number that we are going to compare and a bool var(find) to set the condition to print only 3 or not only 3 |
| DURING THE LOOP | ***Q2 -*** *Do you need to look at* ***every element****, or* ***just some****?*  Just some if there’s other number that is not number 3  ***Q3 -*** *What are you* ***comparing or counting****?*  Comparing  ***Q4 -*** *What* ***condition would break*** *the rule or stop your check early?*  If there’s other number that is not number 3 |
| AFTER THE LOOP | ***Q5 -*** *What do you need to do after the loop?*  Print the output that said “only 3” if the array only have number 3 or “not only 3” |

**PART B - Strategy Plan**

Describe your thinking using bullets and sub-bullets.

Start with the main steps. Break them into sub-ideas where needed.

**🧪 Example for “Find if there’s at least one zero in the array”**

* I will check each number in the array
  + If I find a 0
    - I know the array has at least one zero
    - I can stop checking
* If I check everything and didn’t find a 0
  + I know the array does not contain any zero

Answer

* I will create an array to let the user input the array that composed of number 3 or more
* I will check and comparing each element in the array
  + If I find any element that have other number that is not 3
    - I will set the find var to true
    - I can stop comparing
  + If I don’t find any number other than 3
    - I know that I have only 3
* I will print thee output according to the find var
  + If the var is true
    - I print not only 3
  + If false
    - I print only 3