**CHALLENGE 3**

*Check something on at least 1 element*

**Objective**

We want to check that an array contains at **least one number** 3**.**

| INPUT | Array of 5 integers |
| --- | --- |
| OUTPUT | "at least a 3" or "not 3" |

**Examples**

| INPUT | OUTPUT |
| --- | --- |
| {3, 3, 3, 3, 3} | at least a 3 |
| {1, 2, 3, 4, 5} | at least a 3 |
| {1, 1, 1, 1, 1} | No 3 |

**PART A - Strategy Analysis**

| BEFORE THE LOOP | ***Q1 -*** *Do you have* ***any variable to initialize*** *before looping on array elements?*  yes, i need to initialize “ at least a 3” bool type var |
| --- | --- |
| DURING THE LOOP | ***Q2 -*** *Do you need to look at* ***every element****, or* ***just some****?*  just some if there’s a 3 somewhere in the array that’s not at the end, if it’s at the end ofc we need to check every elements  ***Q3 -*** *What are you* ***comparing or counting****?*  comparing  ***Q4 -*** *What* ***condition would break*** *the rule or stop your check early?*  if there’s a 3 |
| AFTER THE LOOP | ***Q5 -*** *What do you need to do after the loop?*  print the output according to the var |

**PART B - Strategy Plan**

Describe your thinking using bullets and sub-bullets.

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

* i will create an array for user to input
* i will check and comparing elements in the array
  + if i find 3 in the array
    - i will set var “at least a 3” to true
  + if not
    - the var stay at false
* i will print the output according to the var
  + if the var is true
    - i will print at least a 3
  + if it’s false
    - i will print not 3