

GENERAL SCORING GUIDELINES

Apply the question assessment rubric first, which always takes precedence. Penalty points can only be deducted in a part of the question that has earned credit via the question rubric. No part of a question (a, b, c) may have a negative point total. A given penalty can be assessed only once for a question, even if it occurs multiple times, or in multiple parts of that question. A maximum of 3 penalty points may be assessed per question.

1-Point Penalty

- (w) Extraneous code that causes side effect (e.g. printing to output, incorrect precondition check)
- (x) Local variables used but none declared
- (y) Destruction of persistent data (e.g., changing value referenced by parameter)

Mr Lee's 1-Point Penalty:

- Inefficient, “long winded” or “messy” difficult to understand code which takes longer to write than standard more efficient solutions.
 - In an exam you need to save time by writing quickly hand writable efficient code which is easy for AP readers to understand.

No Penalty

- Extraneous code with no side effect (e.g., precondition check, no-op)
- Spelling/case discrepancies where there is no ambiguity*
- Local variable not declared provided other variables are declared in some part
- Keyword used as an identifier
- Common mathematical symbols used for operators (\bullet , \div , \leq , \geq , $<$, $>$, \neq)
- `[]` vs. `()`
- Extraneous `[]` when referencing entire array
- `[i,j]` instead of `[i] [j]`
- `=` instead of `==` and vice versa
- Missing `{ }` where indentation clearly conveys intent
- Missing `()` around `if` or `while` conditions

* Spelling and case discrepancies for identifiers fall under the "No Penalty" category only if the correction can be unambiguously inferred from context; for example, "total" instead of "totl". As a counterexample, that if the code declares "int G=99, g=0; ", then uses "while (G < 10) " instead of "while (g < 10) ", the context does not allow for the reader to assume the use of the lower-case variable.

2D Arrays – 2d → 1d FRQ

This question involves reasoning about arrays of integers.

Write a code segment, which creates and prints a one-dimensional array containing the elements of a single column in a two-dimensional array. The elements in the new array should be in the same order as they appear in the given column. The notation `arr2D[r][c]` represents the array element at row `r` and column `c`.

The following code segment initializes an array.

```
int[][] arr2D = { {0, 1, 2 },
                  {3, 4 , 5 },
                  {6, 7, 8 },
                  {9, 5, 3 } };
```

When the code segment has completed execution, the variable `result` will have the following contents.

```
result: {1, 4 , 7, 5}
```

Complete the code segment below.

```
/** Creates and prints an array containing the elements of
 * column c of arr2D in the same order as they appear in arr2D.
 * Precondition: c is a valid column index in arr2D.
 * Postcondition: arr2D is unchanged.
 */
int[][] arr2D;
int c;
```