

Solution Review: Check if the Given Character is an Alphabet

Let's see the detailed solution review of the challenge given in the previous lesson.

We'll cover the following

- Solution
 - Explanation
 - Flowchart

Solution

Run the code below and see the output!

```
#include <iostream>

using namespace std;

int main() {
    // Initialize variable character
    char character = 'a';

    // if block
    if (character >= 'A' && character <= 'Z') {

        cout << "upper-case alphabet";
    }
    // else if block
    else if (character >= 'a' && character <= 'z') {

        cout << "lower-case alphabet";
    }
    // else block
    else {

        cout << "not an alphabet";
    }
    return 0;
}
```



Explanation

Line No. 7: Sets the value of a `character` to `a`

Line No. 10: Checks if the value of a `character` is greater than or equal to `A` and less than or equal to `Z`. If yes, then the `if` block is executed. If not, then the `else-if` block is executed.

Line No. 12: Prints `upper-case alphabet` in the output if the condition in **Line No. 10** evaluates to true

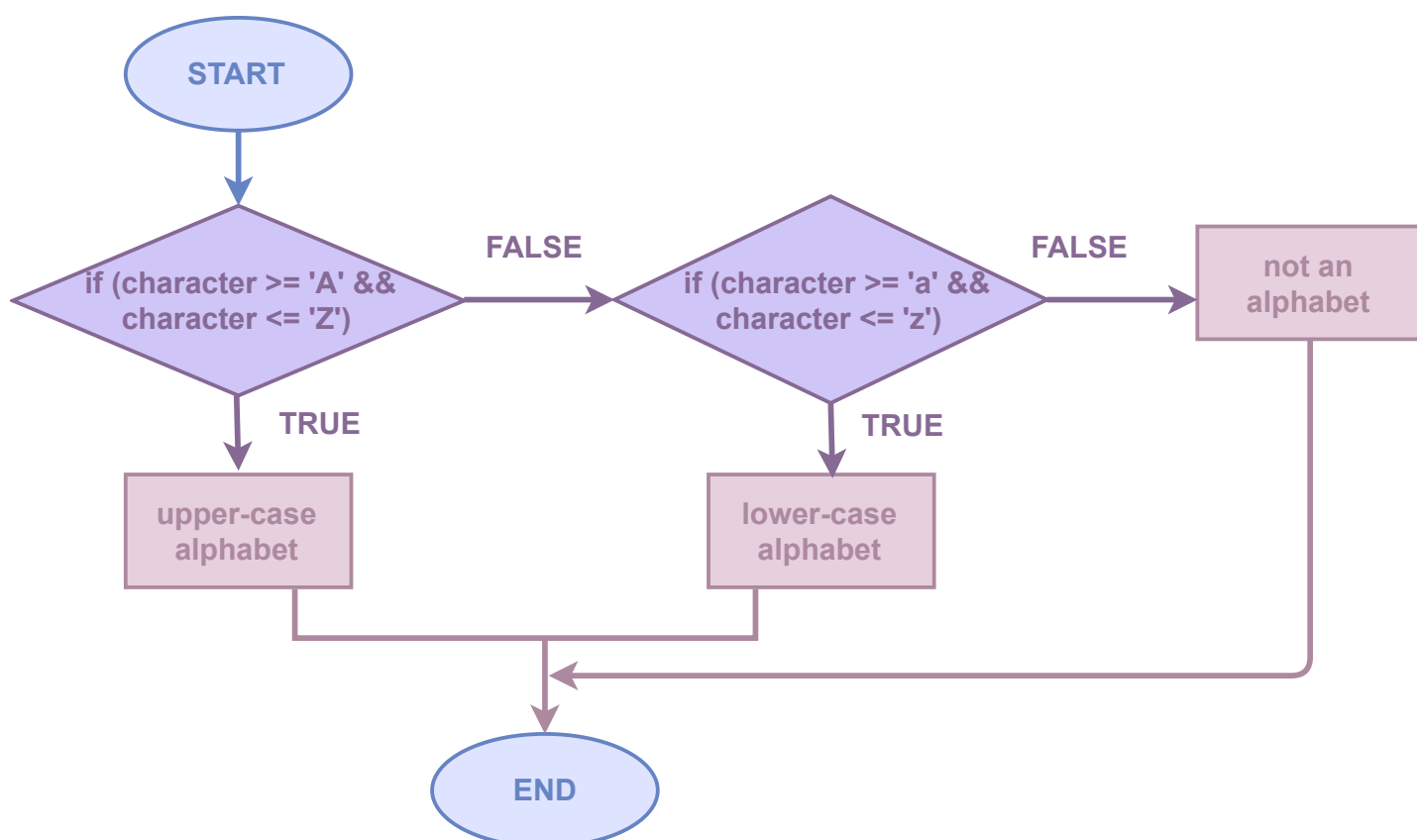
Line No. 15: Checks if the value of a `character` is greater than or equal to `a` and less than or equal to `z`. If yes, then the `else-if` block is executed. If not, then the `else` block is executed.

Line No. 17: Prints `lower-case alphabet` in the output if the condition in **Line No. 15** evaluates to true

Line No. 20: If all the above conditions evaluate to false, the `else` block is executed.

Line No. 22: If all the other conditions evaluate to false, it prints `not an alphabet` to the console.

Flowchart



Let's solve another challenge in the upcoming lesson and see where you stand!

See you there!