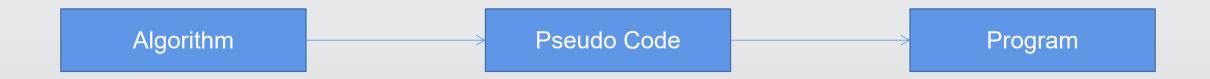
Pseudo Code

by wwy

What is pseudo code

- A Pseudocode is defined as a step-by-step description of an algorithm.
- Pseudocode does not use any programming language in its representation
- It uses the simple English language text as it is intended for human understanding rather than machine reading.
- Pseudocode is the intermediate state between an idea and its implementation(code) in a high-level language.



Some principles

- Organize the sequence of tasks and write the pseudocode accordingly.
- At first, establishes the main goal or the aim.
- Write one statement per line.
- Use standard programming structures such as if-else, for, while, and cases the way we use them in programming.
- Indent the statements if-else, for, while loops as they are indented in a program, it helps to comprehend the decision control and execution mechanism. It also improves readability to a great extent.
- Consecutive statements in the same module are usually identified by consecutive numbers or letters. Labels may be omitted
- There are three kinds of loop statements: the while, repeat-until and for

Some principles

- The assignment statement is represented by the symbol ←
- The symbol △ is a comment symbol, followed by the content that has been commented
- Reserved commands or keywords must be represented in capital letters.
- Check whether all the sections of a pseudo code are complete, finite, and clear to understand and comprehend. Also, explain everything that is going to happen in the actual code.
- Don't write the pseudocode in a programming language. It is necessary that the pseudocode is simple and easy to understand even for a layman or client, minimizing the use of technical terms.

Which is wrong?

For each index of string
IF string(index) is equal to goal
RETURN "It found"
END IF
END FOR

END IF END FOR

For each index of string
if string(index) = goal
RETURN "It found"
END if
END FOR

For each index of string
IF string(index) is equal to goal
Get the answer
END IF
END FOR

For i=0 to end

IF string(i) = goal

RETURN "It found"

Which is wrong?

```
For each index of string

IF string(index) is equal to goal

RETURN "It found"

END IF

END FOR
```

```
For i=0 to 20
IF string(i) = "#"
RETURN "It found"
END IF
END FOR
```

```
For each index of string
if string(index) = goal
RETURN "It found"
END if
END FOR
```

For each index of string

IF string(index) is equal to goal

Get the answer

END IF

END FOR

Example

```
QUICKSORT(Arr[], LOW, HIGH) {
  if (LOW < HIGH) {
    PIVOT = PARTITION(Arr, LOW, HIGH);
    QUICKSORT(ARR, LOW, PIVOT - 1);
    QUICKSORT(ARR, PIVOT + 1, HIGH);
}</pre>
```

Thx :-)