

LUA - FOR LOOP

http://www.tutorialspoint.com/lua/lua_for_loop.htm

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A **for** loop is a repetition control structure that allows you to efficiently write a loop that needs to execute a specific number of times.

Syntax

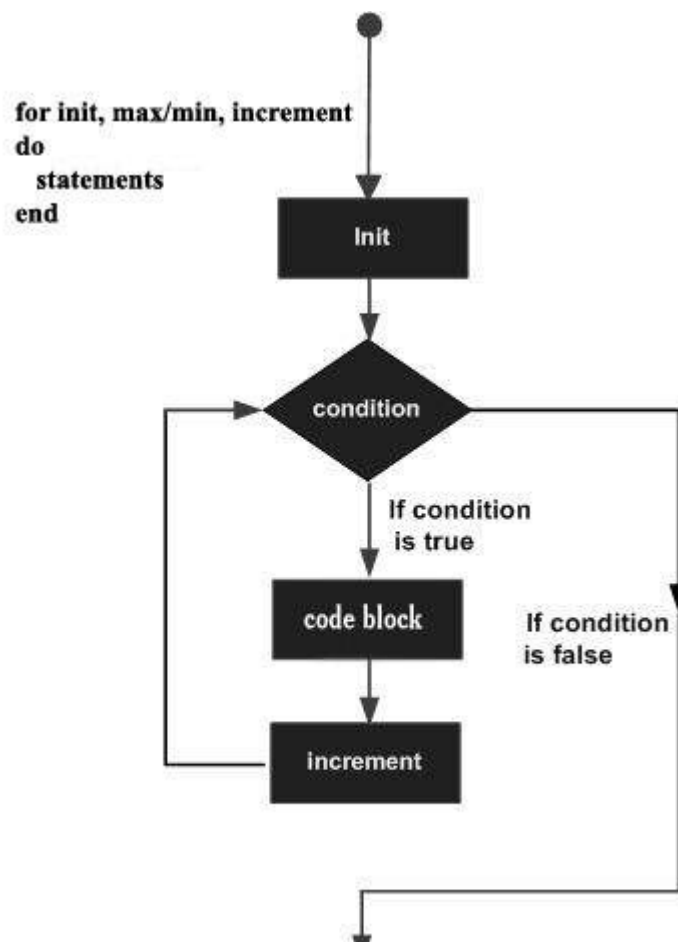
The syntax of a **for** loop in Lua programming language is as follows –

```
for init,max/min value, increment
do
    statement(s)
end
```

Here is the flow of control in a **for** loop –

- The **init** step is executed first, and only once. This step allows you to declare and initialize any loop control variables.
- Next, the **max/min**. This is the maximum or minimum value till which the loop continues to execute. It creates a condition check internally to compare between the initial value and maximum/minimum value.
- After the body of the **for** loop executes, the flow of the control jumps back up to the **increment/decrement** statement. This statement allows you to update any loop control variables.
- The condition is now evaluated again. If it is true, the loop executes and the process repeats itself *bodyofloop, thenincrementstep, andthenagaincondition*. After the condition becomes false, the **for** loop terminates.

Flow Diagram





Example

```
for i=10,1,-1  
do  
  print(i)  
end
```

When the above code is built and executed, it produces the following result –

```
10  
9  
8  
7  
6  
5  
4  
3  
2  
1
```

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