



A function in Lua can be *variadic*, that is, it can take a variable number of arguments.



As a simple example, the following function returns the summation of all of its arguments:

```
function add (...)
local s = 0
for _, v in ipairs{...} do
s = s + v
end
return s
end
```



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```

The three dots (...) in the parameter list indicate that the function is variadic.



In Lua, the **ipairs** iterator returns two values during each iteration: the index and the corresponding value of a table. It is used to traverse arrays or tables with consecutive integer keys starting from 1. Example: