## Range and close

This lesson explains the use of range and how it can be used in closing a channel in Go

## WE'LL COVER THE FOLLOWING ^

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## Closing a channel #

A sender can close a channel to indicate that no more values will be sent. Receivers can test whether a channel has been closed by assigning a second parameter to the receive expression: after

```
v, ok := <-ch
```

ok is false if there are no more values to receive and the channel is closed.

The loop for i := range ch receives values from the channel repeatedly until it is closed.

**Note:** Only the sender should close a channel, never the receiver. Sending on a closed channel will cause a panic.

**Another note:** Channels aren't like files; you don't usually need to close them. Closing is only necessary when the receiver must be told there are no more values coming, such as to terminate a range loop.

## Example #



As you can see in above example, the code only outputs **10** values since the value of **c** passed in line **18** is **10**. And you know that the **forloop** will only receive values from channel till it closes, which is after the value of **c** is reached in this case **10**.

In the next lesson we will discuss the concept of select in Go.