THE TEACHERS' ASCIIDOCTOR STARTER KIT

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LET'S TEST SOME GO

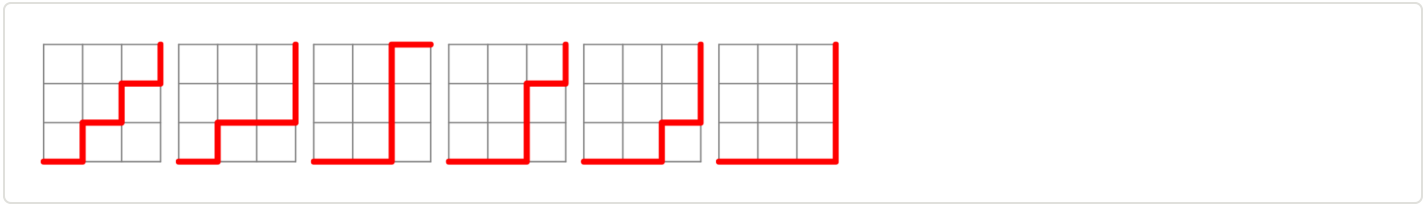Every test is written in a file whose name ends with `_test.go`

```go
func Test_walks(t *testing.T) { ❶
  result := walks(4,4)
  if result != 20 {
    t.Error("incorrect result: expected 20, got", result) ❷
  }
}
```

❶ Requires the *testing* package

❷ Error call

The `section` below has an example of some `walks`.

STAIRCASE WALKS

Six of the 20 possible walks for a 4 × 4 grid

THE RELATIONSHIP

The number of staircase walks on a grid with *m* horizontal lines and *n* vertical lines is given by

$$\binom{m+n}{n} = \frac{(m+n)!}{m!\,n!}$$

PROOF

- This is a proof of the `formula above`.
- It does not show in the "handout" version of this document.

DRAW YOUR OWN WALK!