

Test.index

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Contents

1	Test	2
2	Test2	4
3	Test.Sub.Base	5
4	Test.index	6

1 Test

```
-- This test file currently lacks module-related stuff.

{- Nested
  {- comment. -} -}

module Test where

infix 12 _!
infixl 7 _+_ _-_ _-
infixr 2 __

postulate x : Set

f : (Set → Set → Set) → Set
f _*_ _ = x * x

data N : Set where
  zero : N
  suc : N → N

_+_ : N → N → N
zero + n = n
suc m + n = suc (m + n)

postulate _-_ : N → N → N
-n_ : N → N
-n = n

_! : N → N
zero ! = suc zero
suc n ! = n - n !

record Equiv {a : Set} (_≈_ : a → a → Set) : Set where
  field
    refl : forall x → x ≈ x
    sym : {x y : a} → x ≈ y → y ≈ x
    _'trans'_ : forall {x y z} → x ≈ y → y ≈ z → x ≈ z

data _≡_ {a : Set} (x : a) : a → Set where
  refl : x ≡ x

subst : forall {a x y} →
  (P : a → Set) → x ≡ y → P x → P y
subst {x = x} .{y = y} _ refl p = p

Equiv-≡ : forall {a} → Equiv {a} _≡_
Equiv-≡ {a} =
  record { refl = λ _ → refl
          ; sym = sym
          ; _'trans'_ = _'trans'_ }
```

```

        }
where
sym : {x y : a} → x ≡ y → y ≡ x
sym refl = refl

_ 'trans' _ : {x y z : a} → x ≡ y → y ≡ z → x ≡ z
refl 'trans' refl = refl

postulate
String : Set
Char : Set
Float : Set

data Int : Set where
pos : N → Int
negsuc : N → Int

{-# BUILTIN STRING String #-}
{-# BUILTIN CHAR Char #-}
{-# BUILTIN FLOAT Float #-}

{-# BUILTIN NATURAL N #-}

{-# BUILTIN INTEGER Int #-}
{-# BUILTIN INTEGERPOS pos #-}
{-# BUILTIN INTEGERNEGSUC negsuc #-}

data [_] (a : Set) : Set where
[] : [ a ]
_ :: _ : a → [ a ] → [ a ]

{-# BUILTIN LIST [_] #-}
-- {-# BUILTIN NIL [] #-}
-- {-# BUILTIN CONS _ :: _ #-}

primitive
primStringToList : String → [ Char ]

string : [ Char ]
string = primStringToList "∃ apa"

char : Char
char = '∀'

anotherString : String
anotherString = "¬ be\
\pa"

nat : N
nat = 45

float : Float
float = 45.0e-37

```

2 Test2

```
module Test2 where

open import Test

-- Testing the inter-file goto facility.

test : ℕ
test = 12 + 34 + 56

-- Testing qualified names.

Eq = Test.Equiv {Test.ℕ}
```

3 Test.Sub.Base

```
module Test.Sub.Base where
```

This module is imported by Test.index, and should be included in the website generated from Test.index.

4 Test.index

First text line

```
module Test.index where

import Test
import Test2
import TestMd
-- import Test3
import Test.Sub.Base

-- Just testing...
```

Literate prose is included in generated webpages and PDFs. It is generally rendered as plain text:

- * Blank lines produce paragraph breaks, but line breaks and indentation are otherwise ignored.
- * URLs do not become links.
- * Characters treated as special by LaTeX lead to errors when generating PDFs.
- * Use of Unicode characters in generated PDFs may require mapping them to LaTeX markup.

The subset of LaTeX math markup supported by KaTeX (<https://katex.org>) is rendered correctly in webpages and PDFs. The following examples are from the Material for MkDocs website:

$$\cos x = \sum_{k=0}^{\infty} \frac{(-1)^k}{(2k)!} x^{2k}$$

The homomorphism f is injective if and only if its kernel is only the singleton set e_G , because otherwise $\exists a, b \in G$ with $a \neq b$ such that $f(a) = f(b)$.

```
-- More code
```

Last text line