Types

- unit (void) only val: ()
- bool
- int: ..., -3, -2, -1, 0, 1, 2, ...
- real
  - no implicit conversions between int & real.
  - no equality test.
- string
  - ^ - concat.
Overloaded operators

Compound

- Tuple.
- Records.
- Lists.
  - all values must have same type.
  - nil for empty
  - length
  - append
  - :: cons.
  - map
  - hd / tl
Tuples As Function Args

Curried Functions
Named after Haskell Curry.

\[ \text{int} \rightarrow (\text{int} \rightarrow \text{int}) \]
Pattern Matching

List is
- nil
- first elem :: rest

\[
[1, 2, 3] = 1 :: (2, 3) \\
= 1 :: 2 :: [3] \\
= 1 :: 2 :: 3 :: nil
\]
Polymorphic Type