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| The Haskell Eco-System $\qquad$ |



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1. Tests
-- >>> ???
2. Type
take :: ???

## Some useful library functions

```
-- / Length of the list
length :: [t] -> Int
-- | Append two lists
(++) :: [t] -> [t] -> [t]
-- / Are two lists equal?
(==) :: [t] -> [t] -> Bool
```

You can search for library functions on Hoogle!

```
**3. Code**
```haskell
```

take = ???

Some useful library functions

```
-- / Length of the list
length :: [t] -> Int
-- | Append two lists
(++) :: [t] -> [t] -> [t]
-- / Are two lists equal?
(==) :: [t] -> [t] -> Bool
```

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Recap


- Core program element is an expression
- Every valid expression has a type (determined at compile-time)
- Every valid expression reduces to a value (computed at run-time) $\Rightarrow 1$


## Execution

- Basic values \& operators
- Execution / Function Calls just substitute equals by equals
- Pack data into tuples \& lists
- Unpack data via pattern-matching

