

A tour of Nix

20 / 35 Lists

[prev](#)[next](#)

To learn the basic syntax replace every XX in the function body with values from the let scope.

Do this:

- Every exercise should evaluate to true.

Note: See video [@youtube](#)

```
1 with import <nixpkgs> { };
2 with stdenv.lib;
3 let
4   list = [2 "4" true false {a = 27;} false 3];
5   f = x: isString x;
6   s = "foobar";
7 in
8 {
9   #replace all X, everything should evaluate to true
10  ex00 = isList X;
11  # ex01 = elemAt list 2 == X;
12  # ex02 = length list == X;
13  # ex03 = last list == X;
14  # ex04 = filter f list == [ XX ];
15  # ex05 = head list == X;
16  # ex06 = tail list == [ XXX ];
17  # ex07 = remove true list == [ XXX ];
18  # ex08 = toList s == [ XXX ];
19  # ex09 = take 3 list == [ XXX ];
20  # ex10 = drop 4 list == [ XXX ];
21  # ex11 = unique list == [ XXX ];
22  # ex12 = list ++ ["x" "y"] == [ XXX ];
23 }
24
```

[reset](#)[solution](#)[run](#)

```
with import <nixpkgs> { };
with stdenv.lib;
let
  list = [2 "4" true false {a = 27;} false 3];
  f = x: isString x;
  s = "foobar";
in
{
  #replace all X, everything should evaluate to true
  ex00 = isList list;
  ex01 = elemAt list 2 == true;
  ex02 = length list == 7;
  ex03 = last list == 3;
  ex04 = filter f list == ["4"];
  ex05 = head list == 2;
  ex06 = tail list == ["4" true false {a = 27;} false 3];
  ex07 = remove true list == [2 "4" false {a = 27;} false 3];
  ex08 = toList s == [s];
  ex09 = take 3 list == [2 "4" true];
  ex10 = drop 4 list == [{a = 27;} false 3];
  ex11 = unique list == [2 "4" true false {a = 27;} 3];
  ex12 = list ++ ["x" "y"] == [2 "4" true false {a = 27;} false 3 "x" "y"];
}
```