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## A tour of Nix

## 32/35 Reimplementation: attrVals

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Write your own implementation of the attrvals function.

It consumes a list of attribute names and an attribute set. It returnes the values of each attribute name.

Note: Remember that attrSet ? "a" returns true and attrSet ? "j" => false!

**Note**: Remember that key = a; attrSet.\${a} returns 1!

## attrVals **VS** attrValues:

• attrVals -> given a list of names, extract their values from the set and return a list of them

```
attrVals ["a" "b" "c"] attrSet; => should be [1 2 3]
```

attrValues -> extract all values in the given set and return a list of them

```
attrValues attrSet; => [1 2 3 4]
```

Warning: This is hard!

Note: See video <a>@youtube</a>

```
1 with import <nixpkgs> { };
2 let
3
     attrSet = \{c = 3; a = 1; b = 2; d=4;\};
4
5
    #tips: use the map function and access the attribute values
6
     attrVals = XXX;
7
8 in
9 rec {
10
     solution = attrVals ["a" "b" "c"] attrSet; #should be [1 2 3]
11
12 }
                                                             reset
                                                                    solution
13
                                                                               run
```

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```
with import <nixpkgs> { };
let
   attrSet = {c = 3; a = 1; b = 2; d=4;};
   attrVals = kys: se: lib.fold (el: c: if se ? "${el}" then [(se.${el})] ++ c else c)
[] kys;
in
rec {
   solution = attrVals ["a" "b" "c"] attrSet; #should be [1 2 3]
}
```