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## A tour of Nix

## 34/35 Reimplementation: catAttrs

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Write the function catAttrs.

```
catAttrs "a" [{a = 1;} {b = 0;} {a = 2;}]; => [ 1 2 ]
```

Attribute sets that don't contain the named attribute are ignored.

**Note:** you can use the builtin function concatLists.

**Note:** the right-hand side of the ? operator has the same syntax as the assignment in attrsets (i.e., {foo=42;} and {"foo" = 42;})

Warning: This is hard!

Note: See video @youtube

```
1 with import <nixpkgs> { };
2 let
    list = [["a"] ["b"] ["c"]];
3
4
5
    attrList = [{a = 1;} {b = 0;} {a = 2;}];
6
    catAttrs = XXX
7 in
8 rec {
    example = builtins.concatLists list; #is [ "a" "b" "c" ]
    result = catAttrs "a" attrList; #should be [1 2]
10
11|}
12
                                                            reset
                                                                   solution
                                                                              run
```

```
with import <nixpkgs> { };
let
  list = [["a"] ["b"] ["c"]];

attrList = [{a = 1;} {b = 0;} {a = 2;}];
  catAttrs = name: List: builtins.concatLists (map (x: if x ? ${name} then [x.${name}])
else []) List);
in
rec {
  example = builtins.concatLists list; #is [ "a" "b" "c" ]
  result = catAttrs "a" attrList; #should be [1 2]
}
```

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