



```
1 -- Get every combination of elements in a list
2 import Data.List
3
4 perms :: Eq a => [a] -> [[a]]
5 perms init = process [] init
6   where process :: Eq a => [a] -> [a] -> [[a]]
7         process cperm [] = [cperm]
8         process cperm eperm =
9           [p | e <- eperm,
10            let nperm = cperm ++ [e],
11                let rperm = delete e eperm,
12                p <- process nperm rperm]
```