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