

```
1 *Main> eg3
2 [
3 "100",
4 "020",
5 "203"
6 ]
7 *Main> choices eg3
8 [
9 ["1","123456789","123456789"],
10 ["123456789","2","123456789"],
11 ["2","123456789","3"]]
12 *Main> expand1 (choices eg3)
13 [
14 [["1","1","123456789"],["123456789","2","123456789"],["2","123456789","3"]],
15 [["1","2","123456789"],["123456789","2","123456789"],["2","123456789","3"]],
16 [["1","3","123456789"],["123456789","2","123456789"],["2","123456789","3"]],
17 [["1","4","123456789"],["123456789","2","123456789"],["2","123456789","3"]],
18 [["1","5","123456789"],["123456789","2","123456789"],["2","123456789","3"]],
19 [["1","6","123456789"],["123456789","2","123456789"],["2","123456789","3"]],
20 [["1","7","123456789"],["123456789","2","123456789"],["2","123456789","3"]],
21 [["1","8","123456789"],["123456789","2","123456789"],["2","123456789","3"]],
22 [["1","9","123456789"],["123456789","2","123456789"],["2","123456789","3"]]]
23 *Main> length (expand1 (choices eg3))
24 9
25 *Main>
```