result = []

def backtrack(路径, [选择列表参数]):

if 满足结束条件 (reach leaf node):

result.add(路径)

return

for 选择 in 选择列表:

// filter out invalid choice

if (choice is invalid) {

continue;

}

做选择，更新路径

backtrack(路径, [选择列表参数]) -> one level deeper

撤销选择，更新路径 (if no more following choices, then this is not needed)

每一层都有已经走过的路径和选择列表，有时候选择列表要依靠选择列表参数来生成