All Permutations I

```
1 class Solution(object):
    def permutations(self, input):
3
4
       input: string input
5
       return: string[]
6
7
      # write your solution here
8
      answers = []
9
      nums = list(input)
10
       self.bt(answers, 0, len(nums), nums)
11
       return answers
12
13
    def bt(self, answers, current_position, N, nums):
       if current_position == N:
14
         answers.append(".join(nums[:]))
15
16
         return
       for i in range(currrent_position, N):
17
         nums[current_position], nums[i] = nums[i], nums[current_position]
18
19
         self.bt(answers, current_position + 1, N, nums)
         nums[current_position], nums[i] = nums[i], nums[current_position]
20
21
       return
```