

# All Permutations II

```
1 class Solution(object):
2     def permutations(self, input):
3         """
4         input: string input
5         return: string[]
6         """
7         # write your solution here
8         res = []
9         set_list = list(input)
10        set_list.sort()
11        self.helper(set_list, res, 0)
12        if len(res) == 0:
13            res.append("")
14        return res
15
16    def helper(self, set_list, res, index):
17        if index == len(set_list) - 1:
18            res.append("".join(set_list))
19            return
20        s = set()
21        for i in range(index, len(set_list)):
22            if set_list[i] in s:
23                continue
24            set_list[index], set_list[i] = set_list[i], set_list[index]
25            s.add(set_list[index])
26            self.helper(set_list, res, index + 1)
27            set_list[index], set_list[i] = set_list[i], set_list[index]
```