**4 kyu**

**Permutations**

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In this kata you have to create all permutations of an input string and remove duplicates, if present. This means, you have to shuffle all letters from the input in all possible orders.

Examples:

permutations('a'); # ['a']

permutations('ab'); # ['ab', 'ba']

permutations('aabb'); # ['aabb', 'abab', 'abba', 'baab', 'baba', 'bbaa']

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def nextPermutation(array):

  i = len(array) - 1

  while(i > 0 and array[i-1] >= array[i]): i-=1

  if(i <= 0): return False

  j = len(array) - 1

  while(array[j] <= array[i-1]): j-=1

  temp = array[i-1]

  array[i-1] = array[j]

  array[j] = temp

  j = len(array) - 1

  while(i < j):

    temp = array[i]

    array[i] = array[j]

    array[j] = temp

    i+=1

    j-=1

  return True

def permutations(s):

#your code here

#return list(set(permutations(string)))

s = list(sorted(list(s)))

arr = []

arr.append(''.join(s))

flag = True

while(flag):

flag = nextPermutation(s)

#print(s)

arr.append(''.join(s))

return (set(arr))

print(permutations('11133'))