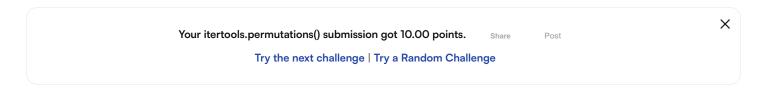
itertools.permutations() 🖈





itertools.permutations(iterable[, r])

Problem

This tool returns successive **r** length permutations of elements in an iterable.

Submissions

If r is not specified or is None, then r defaults to the length of the iterable, and all possible full length permutations are generated.

Leaderboard

Permutations are printed in a lexicographic sorted order. So, if the input iterable is sorted, the permutation tuples will be produced in a sorted order.

Editorial A

Sample Code

```
>>> from itertools import permutations
>>> print permutations(['1','2','3'])
<itertools.permutations object at 0x02A45210>
>>>
>>> print list(permutations(['1','2','3']))
[('1', '2', '3'), ('1', '3', '2'), ('2', '1', '3'), ('2', '3', '1'), ('3', '1', '2'), ('3', '2', '1')]
>>>
>>> print list(permutations(['1','2','3'],2))
[('1', '2'), ('1', '3'), ('2', '1'), ('2', '3'), ('3', '1'), ('3', '2')]
>>>
>>> print list(permutations('abc',3))
[('a', 'b', 'c'), ('a', 'c', 'b'), ('b', 'a', 'c'), ('b', 'c', 'a'), ('c', 'a', 'b'), ('c', 'b', 'a')]
```

Task

You are given a string S.

Your task is to print all possible permutations of size \boldsymbol{k} of the string in lexicographic sorted order.

Input Format

A single line containing the space separated string $m{S}$ and the integer value $m{k}$.

Constraints

$0 < k \leq len(S)$

The string contains only UPPERCASE characters.

Output Format

Print the permutations of the string ${m S}$ on separate lines.

Sample Input

HACK 2

Sample Output

AC

АН

ΑK

CA

CH

CK

НА

HC HK

KA

KC KH

Explanation

All possible size ${\bf 2}$ permutations of the string "HACK" are printed in lexicographic sorted order.

```
Change Theme
                                                                Language Python 3
                                                                                                       K 27 ...
    # Enter your code here. Read input from STDIN. Print output to STDOUT
1
    from itertools import permutations
2
   string, k = input().split()
4
   k = int(k)
   lst = sorted(list(permutations(string, k)))
   for i in lst:
7
8
       print("".join(i))
9
```

EMACS

Line: 9 Col: 1

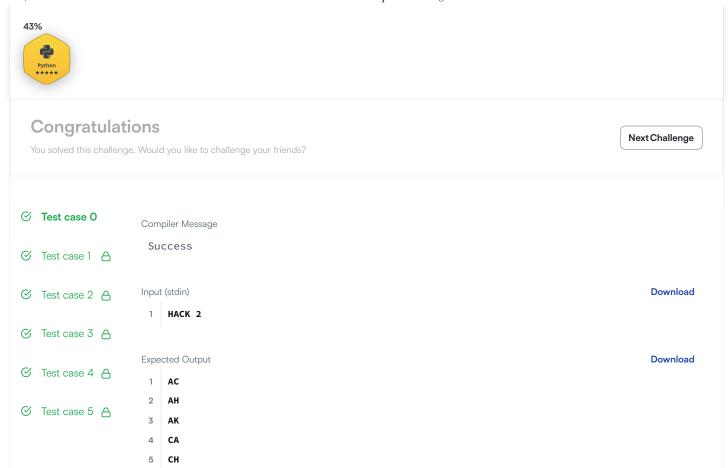
Pupload Code as File

Test against custom input

Run Code

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49/115 challenges solved.



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CK