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itertools.combinations()



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Problem

Submissions

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itertools.combinations(iterable, r)

This tool returns the ${m r}$ length subsequences of elements from the input iterable.

Combinations are emitted in lexicographic sorted order. So, if the input iterable is sorted, the combination tuples will be produced in sorted order.

Sample Code

```
>>> from itertools import combinations
>>> print list(combinations('12345',2))
[('1', '2'), ('1', '3'), ('1', '4'), ('1', '5'), ('2', '3'), ('2', '4'), ('2', '5'), ('3', '4'), ('3', '5'), ('4', '5')]
>>> A = [1,1,3,3,3]
>>> print list(combinations(A,4))
[(1, 1, 3, 3), (1, 1, 3, 3), (1, 1, 3, 3), (1, 3, 3, 3), (1, 3, 3, 3)]
```

Task

You are given a string S.

Your task is to print all possible combinations, up to size k, of the string in lexicographic sorted order.

A single line containing the string \boldsymbol{S} and integer value \boldsymbol{k} separated by a space.

Constraints

$0 < k \leq len(S)$

The string contains only UPPERCASE characters.

Output Format

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

Sample Input

HACK 2

Sample Output

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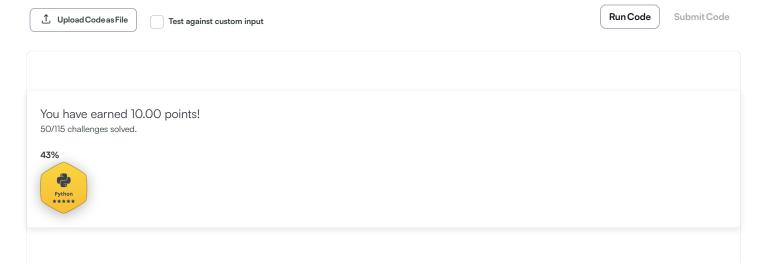
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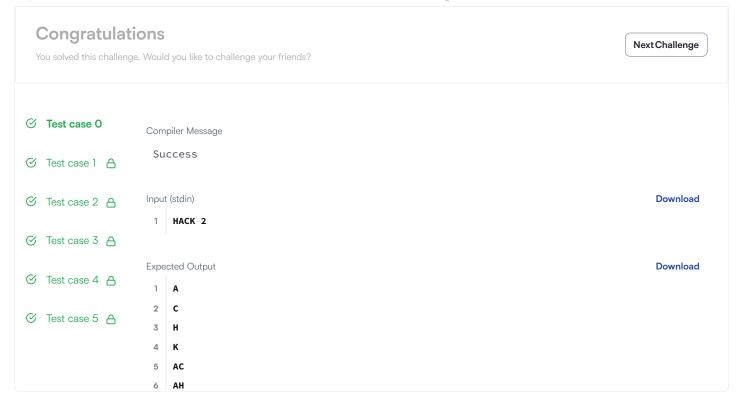
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```
Change Theme Language Python 3
                                                                                                ૱
    # Enter your code here. Read input from STDIN. Print output to STDOUT
1
    from itertools import combinations
2
4
    string, k = input().split()
5
    string = sorted(string)
    k = int(k)
    for i in range(1, k+1):
8
9
        lst = list(combinations(string, i))
10
        for j in lst:
11
            print("".join(j))
12
13
14
```

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