itertools.combinations() ★

Submissions



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Editorial 🖰

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.

Leaderboard

Sample Code

Problem

```
>>> 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 $oldsymbol{\mathcal{S}}$

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

Input Format

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

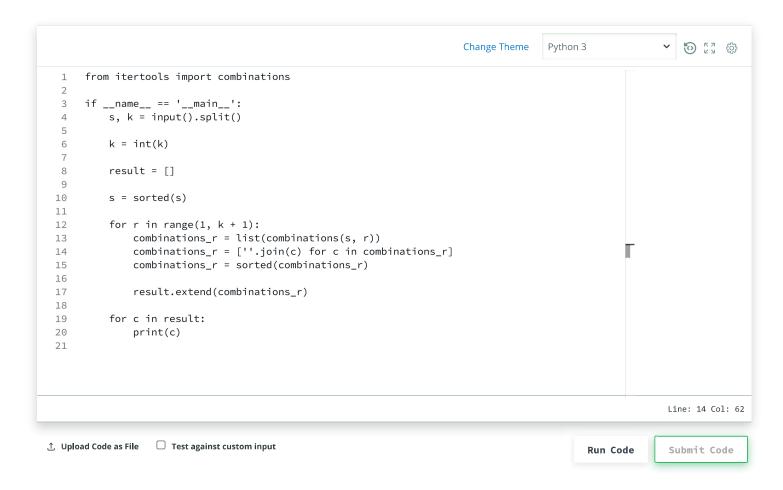
Print the different combinations of string $m{S}$ on separate lines.

Sample Input

HACK 2

Sample Output

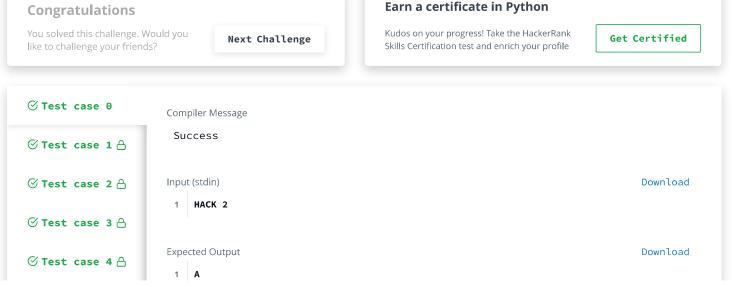
A C H K AC AH AK CH



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