



Practice > Python > Itertools > itertools.combinations_with_replacement()

itertools.combinations_with_replacement() ☆

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Problem

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[itertools.combinations_with_replacement\(iterable, r\)](#)

This tool returns r length subsequences of elements from the input iterable allowing individual elements to be *repeated more than once*.

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_with_replacement
>>>
>>> print list(combinations_with_replacement('12345',2))
[('1', '1'), ('1', '2'), ('1', '3'), ('1', '4'), ('1', '5'), ('2', '2'), ('2', '3'), ('2', '4'), ('2', '5'), ('3', '3'), ('3', '4'), ('3', '5'), ('4', '4'), ('4', '5'), ('5', '5')]
>>>
>>> A = [1,1,3,3,3]
>>> print list(combinations(A,2))
[(1, 1), (1, 3), (1, 3), (1, 3), (1, 3), (1, 3), (1, 3), (1, 3), (3, 3), (3, 3), (3, 3)]
```

Task

You are given a string S .

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

Input Format

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

Constraints

 $0 < k \leq \text{len}(S)$

The string contains only *UPPERCASE* characters.

Output Format

Print the combinations with their replacements of string S on separate lines.

Sample Input

HACK 2

Author

DOSHI

Difficulty

Easy

Max Score

10

Submitted By

16386

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Sample Output

AA
AC
AH
AK
CC
CH
CK
HH
HK
KK

Current Buffer (saved locally, editable)



Python 3



```
1 from itertools import combinations_with_replacement
2 s,n=input().split()
3 print(*[''.join(i) for i in
combinations_with_replacement(sorted(s),int(n))],sep='\n')
```

Line: 1 Col: 52

Upload Code as File

☐ Test against custom input

Run Code

Submit Code



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48%

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You solved this challenge. Would you like to challenge your friends?

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Testcase 0

Testcase 1

Testcase 2

Testcase 3

6 Testcases ✓

Input (stdin)

[Download](#)

Expected Output

[Download](#)**HACK 2****AA****AC****AH****AA**

Compiler Message

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