



itertools.combinations() ★

45/115 challenges solved

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Your itertools.combinations() submission got 10.00 points.

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Problem

Submissions

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itertools.combinations(iterable, r)

This tool returns the 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.

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 different combinations of string S on separate lines.

Sample Input

HACK 2

Sample Output

```
A
C
H
K
AC
AH
AK
CH
CK
HK
```

Change Theme Language Python 3



```
1 from itertools import combinations
2 m,n=input().split()
3 m=sorted(m)
4 for i in range(int(n)):
5     l=list(combinations(m,i+1))
6     for h in l:
7         print(''.join(h))
```

Line: 7 Col: 26

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

You have earned 10.00 points!

45/115 challenges solved.

39%



Congratulations



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Test case 0

1 HACK 2

Test case 1

Test case 2

Test case 3

Expected Output

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```
1 A
2 C
3 H
4 K
```

✔ Test case 4 

✔ Test case 5 

- 5
- 6
- 7
- 8
- 9
- 10

AC
AH
AK
CH
CK
HK