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Practice > Python > Itertools > itertools.permutations()

# itertools.permutations() ☆





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itertools.permutatio	ons(iterable[, r])			
This tool returns su	ccessive <b>r</b> length permu	utations of elements in a	n iterable.	
If $m{r}$ is not specified permutations are g		ults to the length of the i	terable, and all possib	le full length
·	rinted in a lexicographic will be produced in a so	sorted order. So, if the intention	input iterable is sorted	l, the
Sample Code				
<pre>&gt;&gt;&gt; print per <itertools.pe>&gt;&gt; &gt;&gt;&gt; print lis</itertools.pe></pre>		,'3']) at 0x02A45210>	('2', '3', '1'),	('3',
[('1', '2'), >>> >>> print lis [('a', 'b', '	t(permutations(['1 ('1', '3'), ('2', '	1'), ('2', '3'), ('3		
>>> >>> print lis [('1', '2'), >>> >>> print lis [('a', 'b', '	t(permutations(['1 ('1', '3'), ('2', ' t(permutations('aboc'), ('a', 'c', 'b'	1'), ('2', '3'), ('3 c',3))		
>>> >>> print lis [('1', '2'), >>> >>> print lis [('a', 'b', ' 'a', 'b'), ('	t(permutations(['1 ('1', '3'), ('2', ' t(permutations('abo c'), ('a', 'c', 'b' c', 'b', 'a')]	1'), ('2', '3'), ('3 c',3))		

Max Score 1	Author	DOSHI
	Difficulty	Easy
Submitted By 2077	Max Score	10
2077	Submitted By	20771

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# MORE DETAILS

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

### Constraints

 $0 < k \leq len(S)$ 

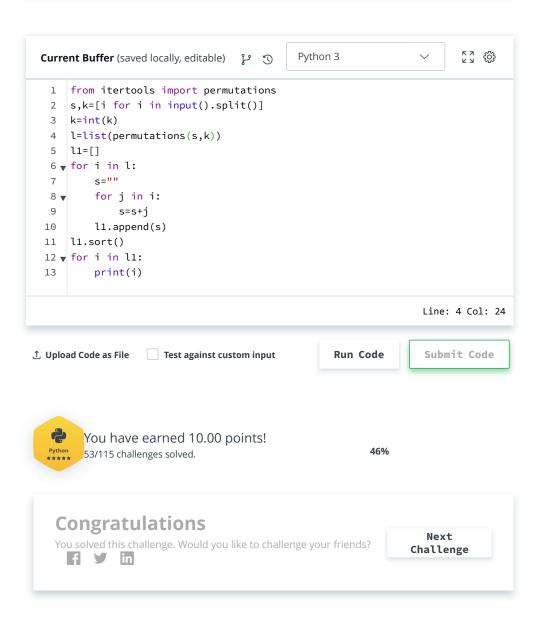
The string contains only *UPPERCASE* characters.

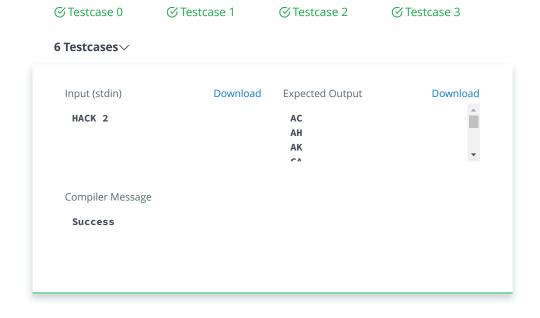
# **Output Format**

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

#### Sample Input

```
HACK 2
Sample Output
   \mathsf{AC}
   \mathsf{AH}
   ΑK
   CA
   СН
   CK
   НΑ
   HC
   HK
   \mathsf{K}\mathsf{A}
   \mathsf{KC}
   KH
Explanation
All possible size 2 permutations of the string "HACK" are printed in lexicographic sorted order.
```





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