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## Order by word lengths

X30120\_en

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Write a function *length\_sorted(f)* that provided a list of words *f* returns a list *g* with the very same words of *f*. Words in *g* must appear in increasing lengths. Words of the same length must appear in alphabetical order. All characters in words are lowercase letters.

### Sample session

```
>>> length_sorted(['z', 'ping', 'king', 'doork', 'koong', 'doong', 'x'])
['x', 'z', 'king', 'ping', 'doong', 'doork', 'koong']
>>> length_sorted(['winter', 'winner', 'counter', 'mother', 'table'])
['table', 'mother', 'winner', 'winter', 'counter']
>>> length_sorted(['self', 'made', 'man'])
['man', 'made', 'self']
>>> length_sorted(['z', 'y', 'x', ''])
['', 'x', 'y', 'z']
```

### Problem information

Author :

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