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**Two Maximum Frequencies 1****X13869\_en**

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Write a function `@def max2freq@` that receives as argument a list of words, and finds in it both the words that appear with maximum frequency and the words that appear with second maximum frequency.

Input is received as argument of the function: it is an arbitrary list of strings. The result returned by the function must be a pair formed by two lists. The first list contains the words that appear with maximum frequency in the input, sorted according to their standard Python ordering. The second list contains the words that appear with second maximum frequency in the input, sorted likewise. Think carefully whether each of the output lists can be empty.

**Sample session**

```
>>> print(max2freq([ 'four', 'three', 'four', 'threeaswell',
... 'alsofour', 'onlyonce', 'alsofour', 'alsothree', 'alsothree',
... 'four', 'alsofour', 'four', 'alsofour', 'three', 'threeaswell',
... 'threeaswell', 'three', 'alsothree', 'alsoonlyonce' ]))
(['alsofour', 'four'], ['alsothree', 'three', 'threeaswell'])
>>> print(max2freq(['twice', 'twice', 'once', 'thrice',
... 'thrice', 'retwice', 'retwice', 'thrice' ]))
(['thrice'], ['retwice', 'twice'])
>>>
```

**Problem information**

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