

Having a list of words (which are sequences of small letters), one word per one line, sort them according to the following order: word\_1 is smaller than word\_2 if word\_1 contains less letters 'z', and in the case of the equal number of 'z' letters in both words, consider the number of letter 'y', and as a smaller word take word with smaller number of letter 'y', and so on. In the case of two words have the same number of equivalent letters, take into account lexicographic order between them.

For example: *baabca* is smaller than *ccaaaa* (1 x 'c' vs 2 x 'c'), and *xabcabx* is smaller than *axbcaxc* (2 x 'x' in both words, but 1 x 'c' in the first one vs 2 x 'c' in the second one word). Word *bbaaxx* is smaller than *xxaabb*.