

Frequency Meter

Your task is to display a dictionary that represent the frequency of each character in the word W.

Input

The first line of input contains a word W.

Output

The first line displays the dictionary of the frequencies (formatted in this way ***{'character': frequency}***).

Sample input

Sample output

programming	{'p': 1, 'r': 2, 'o': 1, 'g': 2, 'a': 1, 'm': 2, 'i': 1, 'n': 1}
aaavvbsa	{'a': 4, 'v': 2, 'b': 1, 's': 1}
bottle	{'b': 1, 'o': 1, 't': 2, 'l': 1, 'e': 1}