

Write a python program that takes 2 inputs from the user.

- Input1: A string containing a single sentence or multiple sentences. Multiple sentences are separated by full stops.
- Input2: A list containing special characters.

After taking the inputs, your task is to create a dictionary where the **keys** will be the corresponding special characters from the given list and the **values** will be the words in the given sentence.

You need to find out which key belongs to which value. To do that, you should calculate the **index number** using the formula given below. **The calculated index is the corresponding key of the word.** Make sure no duplicate values are inserted.

The formula:

Index value of special character list = (ASCII sum of the word) % (length of special character list)

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Sample Input 1:

'I love Programming. Python is love.'

['@', '\$', '&', '#']

Sample Output 1:

Words in the given String: ['I', 'love', 'Programming', 'Python', 'is', 'love']

Answer: {'\$': ['I'], '&': ['love', 'Python'], '#': ['Programming'], '@': ['is']}

Explanation 1:

From the string 'I love Programming. Python is love.' the {key: value} pair is calculated accordingly:

Word	ASCII sum	List length	Calculated index	Key
I	73	4	$73\%4 = 1$	'\$'
love	438	4	$438\%4 = 2$	'&'
Programmin g	1155	4	$1155\%4 = 3$	'#'
Python	642	4	$642\%4 = 2$	'&'

is	220	4	$220\%4 = 0$	'@'
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love	438	4	$438\%4 = 2$	'&'
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The calculation is shown in the given table. Full stops after 'Programming.' and 'love.' are avoided. Also, the last word 'love' is a duplicate, and therefore, it was not inserted again as a value.

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Sample Input 2:

'The secret of getting ahead is getting started.'

['-', '=', '+', '*', '%']

Sample Output 2:

Words in the given String: ['The', 'secret', 'of', 'getting', 'ahead', 'is', 'getting', 'started']

Answer: {'%': ['The', 'getting', 'ahead', 'started'], '=': ['secret'], '*': ['of'], '-': ['is']}

Explanation 2:

From the string 'The secret of getting ahead is getting started.' the {key: value} pair is calculated accordingly:

Word	ASCII sum	List length	Calculated index	Key
The	289	5	$289\%5 = 4$	'%'
secret	646	5	$646\%5 = 1$	'=
of	213	5	$213\%5 = 3$	'*'
gettin g	754	5	$754\%5 = 4$	'%'
ahead	499	5	$499\%5 = 4$	'%'
is	220	5	$220\%5 = 0$	'-'

gettin g	754	5	$754 \% 5 = 4$	'%'
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starte d	759	5	$759 \% 5 = 4$	'%'
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The calculation is shown in the given table. Full stop after 'started.' is avoided. Also, the word 'getting' is a duplicate and therefore it was not inserted again as a value.

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