CS240 Homework 4

<u>Input</u>: A list of strings, separated by a semicolon, ending by EOF. A string can contain any character, provided it is not a semincolon. For example, a string can contain the "new line" character '\n'. <u>Output</u>: The list of strings in the ascending order of length. Each string is printed on a separate line. There is no new-line character '\n' on the last line.

Your code must store the list of strings as a linked list of objects, each put in a "struct"

and implement the following functions:

- void get_strings(...): the function reads from "stdin" a list of strings and stores it in a linked list given as input somehow to this function
- void sort_strings(...): this function is to ascendingly sort strings in a linked list given as input somehow to this function; at the end of the function, the list will be updated
- void show_strings(...): this function prints the strings stored by a linked list given as input somehow to this function

Sample input/output

No	Input	Output
1	abc;def;1234;12	12 🗸
		abc_
		def ₄
		1234
2	def;abc;12;1234	12_
		def
		abc₄
		1234
3	Abc;;11;;	لم ا
		ا جا
		ا ج
		114
		Abc
4	abc;;1234;	ج ا
		ا ا
		abc_l
F		1234
6		
6	 m	ا
		ا ا
		لم ا
7	a_l	a _e l
8	aحا	123 🗸

	4	a₄
	4	_
	;123	ا