

Intermediate (Level II) – Q5

The list `the_list` stores 5 integers as follows:

<code>the_list</code>	12	8	40	23	6
	0	1	2	3	4

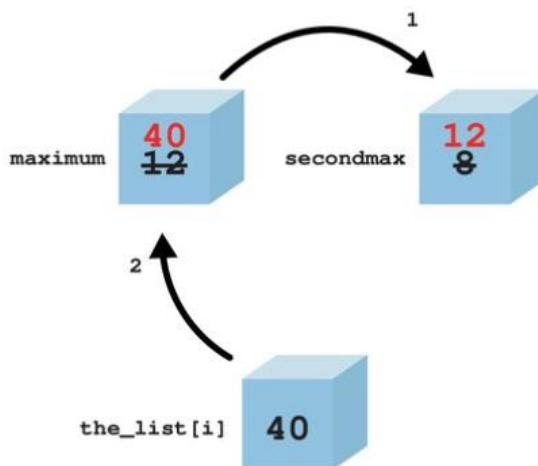
Write a Python program to find the second maximum number in the list by completing parts (a) & (b) below.

- (a) Write the conditional statements in lines 2-7 to find out whether the first or second item in the list is greater. Add two variables to store the maximum number and second maximum number temporarily.

<u>Line</u>	<u>Code</u>
1	<code>the_list = [12, 8, 40, 23, 6]</code>
2	<code>if _____:</code>
3	<code> maximum = _____</code>
4	<code> secondmax = _____</code>
5	<code>else:</code>
6	<code> maximum = _____</code>
7	<code> secondmax = _____</code>

- (b) Use a `for` loop to compare the list items and the two temporary variables one by one:

- If the item is greater than the temporary maximum number and second maximum number:



- If the item is not greater than the temporary maximum number but larger than the temporary second maximum number:

