

5 Tupperware Nightmare

Spring is here, and with spring comes spring cleaning. You scrub your floors, dust off cabinets, and even deallocate some dynamically allocated memory! Being the perfectionist you are, you decide to reorganize your whole kitchen. However, that cabinet stuffed with random tupperware bowls and lids proves to be a real challenge. To help with your tupperware organization, you decide to write a program to determine if a pile of tupperware is well stacked.

A pile of tupperware and its lids are said to be well stacked if it meets the following criteria:

- Each tupperware base must have a corresponding lid of the same size.
- Tupperware lids must be placed on top of their corresponding bases, meaning that a tupperware lid cannot precede its corresponding base.
- Only tupperware bases of same or smaller size can be placed on top of tupperware lids
- Only tupperware bases of same or smaller size can be placed within other tupperware bases
- Tupperware bases and lids can be nested, as long as it follows the above criteria.
 - Example: `MSsm` represents a well stacked small base and lid inside a medium base, topped off with its corresponding medium lid

5.1 Input

Input will consist of a single line of characters representing the stack of tupperware. Input consists of 'L', 'M', 'S' to represent large, medium and small tupperware bases, and 'l', 'm', 's' to represent large, medium and small tupperware lids, respectively. The input is interpreted left to right, with the leftmost character being the bottom of the tupperware pile, and the rightmost character being the top of the tupperware pile.

5.2 Output

If the tupperware pile meets the definition of well stacked, output "well stacked". Otherwise, output "not well stacked".

Please be sure to match spacing and capitalization, if any, EXACTLY as shown in the output for your solutions

5.3 Sample Input/Output

Sample Input 1	Sample Output 1
LMSsSsml	well stacked
Sample Input 2	Sample Output 2
LLMSsmallMSsmMmSSss	well stacked
Sample Input 3	Sample Output 3
LMlm	not well stacked
Sample Input 4	Sample Output 4
LiMmLi	not well stacked