

Q4. Anagram Checker (30 marks)

Anagrams are words or phrases formed by rearranging the letters of another word or phrase. For example, the words “**stressed**” and “**desserts**” consist of the same letters but just in different sequences, so they are anagrams. For another example, the phrases “**a gentleman**” and “**elegant man**” are also anagrams. In this question, you are required to check whether two input strings are anagrams, disregarding the space(s), if any, between the words in the strings.

Write a programme to**Input, in sequence:**

- (1) The first string that contains a word or a phrase.
- (2) The second string that contains a word or a phrase.

Output:

“anagram” if the first and second strings are anagrams;

“not anagram” if the first and second strings are not anagrams.

试题 4. 变位词检查器 (30 分)

变位词 (Anagrams) 是由通过重新排列另一个单词或短语的字母而形成的单词或短语。例如，单词“**stressed**”和“**desserts**”由相同的字母组成，只是顺序不同，所以它们是变位词。再举一个例子，短语“**a gentleman**”和“**elegant man**”也是变位词。在这个问题中，您需要检查两个输入字符串是否是变位词，其中字符串中的空格（如有的话）可忽略。

试写一程式以**依序输入：**

- (1) 第一个包含单词或短语的字符串；
- (2) 第二个包含单词或短语的字符串；

输出：

“anagram”，如果第一和第二个字符串是变位词

“not anagram”，如果第一和第二个字符串不是变位词

Examples (例子)

Input (输入)	Output (输出)
listen silent	anagram
eleven plus two twelve plus one	anagram
hello world	not anagram
program algorithm	not anagram
funeral real fun	anagram

Test cases:

Input (输入)	Output (输出)
listen silent	anagram
eleven plus two twelve plus one	anagram
hello world	not anagram
program algorithm	not anagram
funeral real fun	anagram
hello goodbye	not anagram
debit card bad credit	anagram