# 3. All That Jazz

Program Name: jazz.java Input File: jazz.in

Benny is a struggling musician trying to determine if the local nightclub he works for is stealing his music. Help Benny compare samples of each melody.

### Input

The first line of input will consist of a single integer, n, indicating the number of data sets in the input. The remainder of the input consists of those n data sets.

Each data set will consist of two lines with the first line containing Benny's melody and the second line containing the nightclub's melody. Each melody will be a sequence of notes, with each note represented by a single character A-G.

Melodies are considered matching if the notes in Benny's melody exist in the nightclub's melody in the same order. For example:

**ABCD** 

would match

**AGBGCGDG** 

since ABCD exists in the second melody (with added G notes)

but

**ABCD** 

would not match

**AGBGDGCG** 

since ABCD does not exist (in that order) in the second melody.

#### Output

For each dataset in the input, display the line, "There is no match." if the melodies do not match or "There is a match consisting of *X* notes.", if the melodies match, where *X* is the length of the shortest sequence of notes that match.

#### **Example Input File**

ABCD
AGBGCGDG
ABCD
AGBGDGCG
CEFGCEFGCEED
ABABABABABABABACEFBGCAEFGCAEFGECBEADED
ABCD
ABCD
ABCD
ABCAAADABCAADABCAADABCAA

## **Example Output To Screen**

```
There is a match consisting of 7 notes. There is no match.
There is a match consisting of 22 notes.
There is a match consisting of 4 notes.
```