

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

To kill some time before the contest, you bought a book of word search puzzles. It's a tough one because words can be spelled in any of 8 directions (up, down, left, right, and all 4 diagonal directions), so after a while you get bored and write a program to find the words for you.

Input

The first line will contain a single integer n indicating the number of data sets. Each data set will consist of 2 components:

1. A 10x10 matrix of lowercase characters to be searched.
2. The next 10 lines will consist of lowercase words (1-10 characters).

Output

For each word, print the following if it was found in the matrix:

“<word> was found”

or print the following if the word was not found in the matrix:

“<word> was not found”

Example Input File

```
1
abcdefghij
klmnullrst
uvwxyzabcd
efgoljklmn
opqrsruvwx
ymbiadefgh
ijkltnopqr
stuvwndzab
cdefghijkl
mnopqrstuv
null
programmer
xor
rand
rox
z
perl
ibm
void
int
```

Example Output To Screen

```
null was found
programmer was not found
xor was found
rand was found
rox was found
z was found
perl was found
ibm was found
void was not found
int was found
```