

## Pangram

A pangram is a phrase that includes at least one occurrence of each of the 26 letters, from 'a' to 'z' (case insensitive). Given a string, you need to check whether it's a pangram or not.

### Format Input

The input will consist of several lines in **testdata.in** file. The input begins with an integer T indicating the number of test cases. In each test case, there is a string you need to check.

### Format Output

For each test case, output "pangram" if it is a pangram. Otherwise, output the word "missing" followed by a space and then the list of letters that didn't occur in the phrase. The list of missing letters should be reported in lower case and should be sorted alphabetically.

### Constraints

$1 \leq T \leq 10$

$1 \leq |s| \leq 1000$

Sample Input (testdata.in)	Sample Output (standard output)
3 The quickbrownfoxjumpsoverthelazydog. ADk, sldfkj Ekfjds1 !@#\$ 949 akdsfj FKDK	Case #1: pangram Case #2: missing bcghimnopqrtuvwxyz Case #3: missing bceghilmnopqrtuvwxyz