1. **Knights Who Say Ni**

**Program Name: Knights.java Input File: knights.dat**

The Knights Who Say Ni, in order to be a knight, must say Ni at least 17 times in any social engagement. However, their clan has grown so large, that they are now having trouble recognizing who is actually from The Knights Who Say Ni and who are just fans of The Knights Who Say Ni. The Knights Who Say Ni would like you to help them in recognizing their fellow members from their fans.

Input

An integer N representing the number of data sets to follow. The string before the ‘:’ represents the person’s speaking name. The string after the ‘:’ is what they are saying in conversation. All conversations will be separated by a ‘-‘.

Output

If the person throughout the entire conversation says ‘Ni’ 17 or more times, output ‘*name* is a member of the Knights Who Say Ni’. If they say Ni more than once but less than 17 times, output ‘*name* is a fan of Knights Who Say Ni’. If they say Ni zero times, output ‘*name* does not say ‘Ni’. Output should be in alphabetical order by name.

**Assumptions**

No Knight will say ‘Ni’ greater than 2^32 – 1 times in a conversation. To count, the word ‘ni’ must be said. The word Senile doesn’t count as saying the word Ni just because Ni occurs within it. Names will not have spaces.

Example Input File

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Ben: Ni, ni, Ni, You know that can't be right, George.

George: Yes, but I see no flaw! Ni!

Ben: Ni, Ni, Ni, Ni, Ni, Nay good sir! Ni! Ni! Ni!

George: I'm right, quit arguing! Ni!

Ben: Never. Ni! Ni! Ni!

Jonnah: Why are you saying that? It's annoying!

Ben: Ni! Ni! Ni! Ni! We are the Knights Who Say Ni!

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Jonnah: Whatever, loser. Go dwell in your forrest.

George: Don't make fun of my friend! Knights Who Say Ni are just fine!

Jonnah: Your mother was a hamster, and your father smelt of elderberries!

George: You take that back!!

Jonnah: You are just as good as them. Terrible.

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Ben: Quit your bickering, Ni, Ni, Ni, Ni!

Jonnah: I have no time to deal with your nonsense, Ni-Boy.

Ben: You have insulted a Knight, Ni, you shall fetch me something of worth! Ni! Ni! Ni!

George: You show 'em what the Knights Who Say Ni are really about!!

Ben: Ni! Ni! I shall. The time has come where the Knights Who Say Ni will prevail! Ni! Ni! Ni! Ni! Ni! Ni!

Example Output To Screen

Ben is a member of the Knights Who Say Ni.

George is a fan of Knights Who Say Ni.

Jonnah does not say Ni.

George is a fan of Knights Who Say Ni.

Jonnah does not say Ni.

Ben is a member of the Knights Who Say Ni.

George is a fan of Knights Who Say Ni.

Jonnah does not say Ni.