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Tanu and Head-bob

Problem Code: **HEADBOB**

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Tanu has got interested in signs and gestures that we use for communication. One such gesture is the head-bob.

When we want to signal "Yes" to someone, we move the head up-and-down. For "No", the head is moved left-and-right, rotating about the vertical axis.

There is a peculiar way of gesturing "Yes", commonly seen in India, by moving head sideways (rotating about the forward-back axis). This is called the *Indian head-bob*.

Tanu observed many people on the railways station, and made a list of gestures that they made. Usual "Yes" gesture is recorded as "**Y**", no as "**N**" and Indian "Yes" gesture as "**I**". (Assume no foreigner uses the Indian "Yes" gesture and vice-versa). Identify which of them were Indians, which were not Indian, and which one you cannot be sure about.

Input

First line contains T, number of people observed by Tanu.

Each person is described in two lines. First line of the description contains a single integer N, the number of gestures recorded for this person. Next line contains a string of N characters, each character can be "Y", "N" or "I".

Output

For each person, print "INDIAN" if he/she is from India, "NOT INDIAN" if not from India, and "NOT SURE" if the information is insufficient to make a decision.

Constraints

- For 30 points: $1 \leq T, N \leq 100$
- For 70 points: $1 \leq T, N \leq 1000$

Example

Input:

```
3
5
NNNYY
6
NNINNI
4
NNNN
```

Output:

```
NOT INDIAN
INDIAN
NOT SURE
```

All submissions for this problem are available.

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Editorial: <https://discuss.codechef.com/problems/HEADBOB>

Tags: [ad-hoc](#), [cakewalk](#), [Itime17](#), [piyushkumar](#)

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Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: CPP14, C, JAVA, PYTH 3.6, PYTH, CS2, ADA, PYP3, TEXT, PAS fpc, RUBY, PHP, NODEJS, GO, TCL, HASK, PERL, SCALA, BASH, JS, PAS gpc, BF, LISP sbcl, CLOJ, LUA, D, CAML, ASM, FORT, FS, LISP clisp, SCM guile, PERL6, CLPS, WSPC, ERL, ICK, NICE, PRLG, ICON, PIKE, SCM qobi, ST, NEM

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