
Mirror trees

P27804_en

Write a program that reads various binary trees of natural numbers and, for each one, indicates if is a mirror tree or not. We say that a tree is mirror if its left side and its right side are the one like the reflection of the other in a vertical mirror.

Input

Input is a sequence of descriptions of trees as it is explained at the exercise .

Output

For each tree, your program must print "MIRROR" or "NO MIRROR" as required.

Sample input

```
7
100 70 20 -1 30 -1 -1 -1 70 -1 20 30 -1 -1 -1

3
100 200 -1 -1 300 -1 -1

5
300 300 300 -1 -1 -1 300 300 -1 -1 -1
```

Sample output

```
MIRROR
NO MIRROR
NO MIRROR
```

Problem information

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