Integer Type

Time Limit: 2.0s   **Memory Limit:** 64M

Strings can represent even or odd numbers, but they also might not be numbers at all. Given a string, determine if it is an even integer, odd integer, or not an integer.

Input Specification

The only line of input is an alphanumeric sequence of characters containing only digits and lowercase letters.

Output Specification

If the input was an even integer, print `even`, if it was an odd integer, print `odd`. If it was not a valid integer, print `invalid`.

Sample Input

```
32498
```

Sample Output

```
even
```