A. Division?

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Codeforces separates its users into 4 divisions by their rating:

- For Division 1: $1900 \leq \text{rating}$
- For Division 2: $1600 \leq \text{rating} \leq 1899$
- For Division 3: $1400 \leq \text{rating} \leq 1599$
- For Division 4: $\text{rating} \leq 1399$

Given a rating, print in which division the rating belongs.

Input

The first line of the input contains an integer t ($1 \leq t \leq 10^4$) — the number of testcases.

The description of each test consists of one line containing one integer rating ($-5000 \leq \text{rating} \leq 5000$).

Output

For each test case, output a single line containing the correct division in the format "`Division X`", where X is an integer between 1 and 4 representing the division for the corresponding rating.

Example

input Copy

```
7
-789
1299
1300
1399
1400
1679
2300
```

output Copy

```
Division 4
Division 4
Division 4
Division 4
Division 3
Division 2
Division 1
```

Note

For test cases $1 - 4$, the corresponding ratings are -789, 1299, 1300, 1399, so all of them are in division 4.

For the fifth test case, the corresponding rating is 1400, so it is in division 3.

For the sixth test case, the corresponding rating is 1679, so it is in division 2.

For the seventh test case, the corresponding rating is 2300, so it is in division 1.

Codeforces Round #784 (Div. 4)

Finished

→ **Virtual participation**

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ **Problem tags**

implementation *800

No tag edit access

→ **Contest materials**

- Announcement (en)
- Tutorial (en)

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