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

Given a \$\$\$\mathrm{rating}\$\$\$, print in which division the \$\$\$\mathrm{rating}\$\$\$ belongs.

Input

The first line of the input contains an integer \$\$\$\$\$\$ (\$\$\$1 \leq 104\$\$\$) — the number of testcases.

The description of each test consists of one line containing one integer \$\$\$\mathrm{rating}\$\$\$ (\$\$\$-5000 \leq \mathrm{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
789
299
300
399
400
679
300
putput
vivision 4
vivision 4
vivision 4
vivision 4
vivision 3
vivision 2
vivision 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\$\$\$.