Xtreme Countdown

HackerRank

Isuru is a budding computer science undergraduate who loves to compete in hackathons. He and his team got registered for IEEEXtreme 16.0 this month. Since this is his first time participating in the competition, he vowed to practice every day and try to get a good rank. He wrote a simple program to keep track of the number of days remaining for the competition. After writing his program, he counted the number of characters in his source code and got a whopping 300! Isuru thought his code was too long and asked you to shorten his code. Your task is to help Isuru shorten his code.

The program Isuru wrote takes the current date n as input and outputs a message denoting the number of days to the competition. Isuru printed the message as follows:

If the current date n is less than 21 output,

```
The IEEEXtreme 16.0 competition starts in m days.
```

where $m = 22 - n$.

If $n = 21$,

```
The competition starts tomorrow.
```

if $n = 22$,

```
Today is the day!
```

Input Format

The first line contains an integer t that denotes the number of test cases. Each of the following t lines contains an integer n denoting the current date.

Constraints

$1 \leq n \leq 22$

$1 \leq t \leq 100$

Output Format

For each test case, print the relevant message denoting the number of days to the competition.

Scoring

If the code matches the expected output, the answer will be scored as follows:

$$Score = maxScore \times \sqrt{\frac{300 - S}{300}}$$

where $S = min(SourceCodeLength, 300)$

Otherwise, the $Score$ will be zero.

For your convenience, whitespaces will be stripped off at the beginning and end of the source code.

Sample Input 0

```
5
9
14
15
22
21
```

Sample Output 0

```
The IEEEXtreme 16.0 competition starts in 13 days.
The IEEEXtreme 16.0 competition starts in 8 days.
The IEEEXtreme 16.0 competition starts in 7 days.
Today is the day!
The competition starts tomorrow.
```