Zhejiang University · **Online Judge**

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Problem Sets

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ZOJ Problem Set - 3785

What day is that day?

Time Limit: 2 Seconds   Memory Limit: 65536 KB

It's Saturday today, what day is it after $1^1 + 2^2 + 3^3 + ... + N^N$ days?

Input

There are multiple test cases. The first line of input contains an integer T indicating the number of test cases. For each test case:

There is only one line containing one integer N ($1 <= N <= 1000000000$).

Output

For each test case, output one string indicating the day of week.

Sample Input

```
2
1
2
```

Sample Output

```
Sunday
Thursday
```

Hint

A week consists of Sunday, Monday, Tuesday, Wednesday, Thursday, Friday and Saturday.

Author: **ZHOU, Yuchen**
Source: **The 11th Zhejiang Provincial Collegiate Programming Contest**

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