# Gregorian Calendar Problem Code: FLOW015

According to Gregorian Calendar, it was Monday on the date 01/01/2001. If any year is input, Write a program to display what is the day on the 1st January of this year.

## Input

The first line contains an integer **T**, total number of testcases. Then follow **T** lines, each line contains an integer **year**.

### Output

Display the day on the 1st January of that year in lowercase letter.

#### **Constraints**

- 1 ≤ **T** ≤ 1000
- 1900≤ **A,B,C** ≤2500

# **Example**

Input

3

1994

1991

2014

# Output

saturday

tuesday

wednesday