

Datum

Problem ID: datum**CPU Time limit:** 1 second**Memory limit:** 1024 MB**Difficulty:** 1.5

Write a program that, given a date in 2009, determines the day of week on that date.

Input

The first line contains two positive integers D (day) and M (month) separated by a space. The numbers will be a valid date in 2009.

Output

Output the day of the week on day D of month M in 2009. The output should be one of the words “Monday”, “Tuesday”, “Wednesday”, “Thursday”, “Friday”, “Saturday” or “Sunday”.

Sample Input 1

1 1

Sample Output 1

Thursday

Sample Input 2

17 1

Sample Output 2

Saturday

Sample Input 3

25 9

Sample Output 3

Friday