

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 and M separated by a space. The numbers will be a valid date in 2009.

OUTPUT

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

EXAMPLES

input 1 1	input 17 1	input 25 9
output Thursday	output Saturday	output Friday