

Check if date is valid

Given a date, the task is to check if it is valid or not. It may be assumed that the given date is in range from 01/01/1800 to 31/12/9999 and any date not within this range will also be considered invalid.

Examples :

Input : d = 10, m = 12, y = 2000

Output : 1

The given date 10/12/2000 is valid

Input : d = 30, m = 2, y = 2000

Output : 0

The given date 30/2/2000 is invalid. The February month cannot have 30 as day.

Input:

The first line of input contains an integer T denoting the no of test cases.

Then T test cases follow. Each test case contains 3 space separated integers d, m, y denoting the day, month and the year respectively.

Output:

For each test case in a new line print 1 if the date is a valid date else print 0.

Constraints:

$1 \leq T \leq 100$

$1 \leq d, m, y \leq 10000$

Example:

Input:

2

10 12 2000

30 2 2000

Output:

1

0