## Combination Of Integers

You will be given $n$ positive integers a_1, a_2, ..., a_n. We say that a nonnegative integer combination of these numbers is of the form $a \_1 * b \_1+a \_2^{*} b \_2+\ldots+a \_n * b \_n$ where each of $b \_1, b \_2, \ldots, b \_n$ is a nonnegative integer. You are to determine how many positive integers cannot be expressed as a nonnegative integer combination of a_1, a_2, ..., a_n.

## Input

The first line contains a single integer denoting the number of test cases (about 30). Each test case consists of a single line. The first integer on the line is $n$, between 1 and 30 , which indicates the number of integers a_1, a_2, ..., a_n. Then n integers follow each between 1 and 100,000. The i'th such integer is a_i. All integers on this line are separated by a space.

## Output

For each test case you are to output a single line. If there are only a finite number of positive integers that cannot be expressed as a nonnegative integer combination of a_1, a_2, ..., a_n, then you are to output this number. Otherwise, simply output the text "Infinite" (without quotes).

## Example

Input:
3
224
245
3111213

## Output:

Infinite
6
30
Explanation
Sample Test 2 :
You cannot express 1,2,3,6,7 and 11 using only the integers 4 and 5.

## Constraints

$1<=\mathrm{n}<=30$
$1<=\mathrm{a}$ i $<=100000$

