Caribbean Online Judge

2939 - Back with Pandigital Numbers

Description

A base-10 integer is said to be pandigital if it contains, among its significant digits, each digit from 0 to 9 at least once. The number 1023456789 is thus the smallest base-10 pandigital number. You can easily generalize the description of pandigital numbers to any base. For example, 1032 is a pandigital number in base-4 while 1023456789ABCDEF is a pandigital number in base-16.

Alice has a special love for base-2. You will be given a list of integers in base-10. Your task here is to write a program that correctly classifies each integer of the list as being either base-2 pandigital or not.

Input specification

The first line of input contains T (T \leq 200), the number of test cases. T lines follow. Each test case consists of a single line containing an integer in base-10 Ni (1 \leq Ni \leq 10 10000).

Output specification

For each test case, output "YES" if the i-th integer is a base-2 pandigital number or "NO" if it is not. In either case, do not include quotes in your output.

Sample input

2

1

2

Sample output

NO

YES

Hint(s)

Source

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Added by ymondelo20

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Time limit (ms) 2500

Test limit (ms) 2500

Memory limit (kb) 256000

Output limit (mb) 64

Size limit (bytes) 15000

Enabled languages

Bash C C# C++ Java Pascal Perl PHP

Enabled languages

Python Ruby Text