CP! - Problem Statement

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Problem

The Joint Entrance Examination (JEE) is an engineering entrance assessment conducted for admission to various engineering colleges in India. It is constituted by two different examinations: the JEE-Main and the JEE-Advanced.

JEE-Main paper has three sections :- Physics, Chemistry, and Maths. Each section has 25 questions. For each correct answer, you get +4 marks, for each incorrect answer, you get -1 mark, and for each unattempted question, you get 0 mark.

You are given marks obtained by a student. Determine if the given marks is possible or not.

Input

The input consists of multiple test cases. The first line contains a single integer t $(1 \leq t \leq 1000000)$ — the number of test cases. The description of test cases follows.

The only line of each test case contains n $(-1000 \leq n \leq 1000)$ - marks obtained by the student.

Output

For each test case, output POSSIBLE or IMPOSSIBLE on a separate line.

Example

input
1
0
output
POSSIBLE