

JoNumber

Jojo likes a number that can be represented as $n \times (n+1) \times (n+2) \div 3$ where n is a positive integer. He named those number as JoNumber. Given an integer X, could X be represented as a sum of 2 JoNumber?

Format Input

The first line is an integer T representing the number of test cases. For each test case, there will be 1 line consisting of an integer X.

Format Output

For each test case output "Case #I: S". I is the test case number and S is the answer to the question. If X could be represented as a sum of 2 JoNumber, then output "Yes", otherwise output "No".

Constraints

- $1 \le T \le 5$
- $1 \le X \le 10^{15}$

Sample Input 1 (standard input)

2 10 11

Sample Output 1 (standard output)

Case #1: Yes Case #2: No

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Jojo menyukai angka yang bisa direpresentasikan sebagai $n \times (n+1) \times (n+2) \div 3$ di mana n adalah bilangan bulat positif. Ia menamai angka tersebut sebagai JoNumber. Diberikan sebuah bilangan bulat X, apakah X bisa direpresentasikan sebagai jumlah dari 2 JoNumber?

Format Input

Baris pertama adalah sebuah bilangan bulat T yang merepresentasikan banyaknya kasus uji.

Untuk setiap kasus uji, akan ada 1 baris yang terdiri dari sebuah bilangan bulat X.

Format Output

Untuk setiap kasus uji outputkan "Case #I: S". I adalah nomor kasus uji dan S adalah jawaban dari pertanyaan. Jika X bisa direpresentasikan sebagai jumlah dari 2 JoNumber, maka outputkan "Yes", jika tidak output "No".

Constraints

- 1 < T < 5
- $1 \le X \le 10^{15}$

Sample Input 1 (standard input)

2 10

11

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Sample Output 1 (standard output)

Case #1: Yes Case #2: No

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