G - Sum of Three Primes

Given an integer N, find out if it can be written as the summation of exactly three prime numbers [not necessarily different]. We call a number prime, if it is only divisible by 1 and the number itself. The first few prime numbers are: 2,3,5,7,11,13,17…

For example,
11 can be written as sum of three primes (2+2+7 or 3+3+5)
5 can't be written as sum of any three primes.

Input
There will be T test cases, **T<=100**
Each case contains an integer N (where **N<=10^5**).

Output
For each test case, print "Case x:" where x is the case number. Then print a single space. Then print "YES" or "NO" depending on your answer. Put a new line ('\n') after the output of each case.

Sample Input	Sample Output
2 11 5	Case 1: YES Case 2: NO