BOB AND HIS LUCKY NUMBER

Problem Statement:

Bob's lucky number is 6. He wanted to represent any number n given to him as sum of numbers ending with 6.

For example he represents

28 as 6+16+6

38 as 6+16+16 or 26+6+6

36 as 36 or 6+6+6+6+6+6

He wants to find the minimum number of summations required to represent n with numbers ending with 6.

Input:

The first line consists of an integer t, the number of test cases. For each test case you are given an integer n.

Output:

For each test case, find the minimum number of summations required to represent n with numbers ending with 6. If it is impossible to represent, print “Impossible".

Input constraints:

1 <= t <= 10^6

1 <= n <= 10^4

Sample Input:

4

28

38

36

14

Sample Output:

3

3

1

Impossible