Sachin Loves Boundaries

Sachin loves to hit boundaries. His lucky digits are 4 and 6. A lucky number is one which has its last digit lucky. 144, 124, 156 are lucky numbers while 111, 123, 667, 249 are not lucky. Given a number he wants to find the minimum of summands which are lucky numbers, necessary to produce a sum equal to the given number.
If not possible, print -1.

INPUT:
Each file will consist of a number of test cases T. Each test case will consist of only one number N in one line.

OUTPUT:
Print the least number of lucky summands as given in the question. If not possible, print -1.

Constraints:
T <= 100000 (10^5)
N <= 10^18

Time limit:
1 sec for each file.

Example:
Input:
1
10

Output:
2

Explaination:
For the first case:
10 = 6 + 4. So, we need only two lucky numbers.