Sherlock and The Beast



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Sherlock Holmes suspects his archenemy, Professor Moriarty, is once again plotting something diabolical. Sherlock's companion, Dr. Watson, suggests Moriarty may be responsible for MI6's recent issues with their supercomputer, *The Beast*.

Shortly after resolving to investigate, Sherlock receives a note from Moriarty boasting about infecting *The Beast* with a virus; however, he also gives him a clue—a number, N. Sherlock determines the key to removing the virus is to find the largest *Decent Number* having N digits.

A *Decent Number* has the following properties:

- 1. Its digits can only be 3's and/or 5's.
- 2. The number of 3's it contains is divisible by 5.
- 3. The number of 5's it contains is divisible by 3.

4. If there are more than one such number, we pick the largest one.

Moriarty's virus shows a clock counting down to *The Beast*'s destruction, and time is running out fast. Your task is to help Sherlock find the key before *The Beast* is destroyed!

Constraints

Input Format

The first line is an integer, T, denoting the number of test cases.

The T subsequent lines each contain an integer, N , detailing the number of digits in the number.

Output Format

Print the largest Decent Number having N digits; if no such number exists, tell Sherlock by printing **-1**.

Sample Input

4

1

3

5 11

Sample Output

-1 555 33333 55555533333

Explanation

For N = 1, there is no decent number having digit (so we print -1).

For N = 3, 555 is the only possible number. The number 5 appears three times in this number, so our count of 's is evenly divisible by 3 (*Decent Number Property 3*).

For N = 5, 33333 is the only possible number. The number 3 appears five times in this number, so our count of 3's is evenly divisible by 5 (*Decent Number Property 2*).

For N = 11, 55555533333 and all permutations of these digits are valid numbers; among them, the given number is the largest one.