Task «$2^i + 5^j$»

Print in ascending order all the numbers that can be represented as $2^i + 5^j$ (i and j are non-negative integers) and do not exceed N.

Input format

The first line contains the integer N ($0 \le N \le 10^9$).

Output format

Print in ascending order all integers a ($0 \le a \le N$) satisfying the conditions. If a number can be obtained in several ways, then it needs to be displayed as many times.

Sample input:

10

Sample output:

2 3 5 6 7 9 9