

Hamming Numbers

Hamming numbers are numbers of the form $H = 2^i \times 3^j \times 5^k$, where $i, j, k \geq 0$.

Hamming numbers are also known as *ugly* numbers and also *5-smooth numbers* (numbers whose prime divisors are less or equal to 5).

Challenge

Generate the sequence of *Hamming* numbers, in increasing order.

Input

n – number of the elements of the sequence

Output

a_1, a_2, \dots, a_n – first n *Hamming* numbers