Refrigerator

Dan need to buy a refrigerator with a capacity of L (liters) to store food.

The bigger surface refrigerator, it will drain faster. Therefore, Dan want to buy the smallest surface refrigerator(The store has all the size and capacity).

Input

One Integer L$(1 <= L <= 10^6)$

Output

3 integer **c, b,a** (unit: dm) , and a <= b <=c. If there are many answers, select 3 numbers a, b, c in order of largest a, largest b.

Example

Input:
12

Output:
3 2 2

Input:
13

Output:
13 1 1