Mr Mukund is working on numbers; He is fascinated by number factors.

He is given a number N, he wants to find out all possible ways of

obtaining N as multiple of its factors.

For example given N =12

can be written as multiple of 2,3 and 4.

and the ways to obtains 12 from ots factors are: 2\*2\*3, 2\*6, 3\*4

Your task is to help Mr Mukund to find the all possible ways of obtaining N

from its factors and return all the possible ways as shown in the samples.

NOTE: The result should be in the lexicographic order.

Input Format:

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An integer N, value of N.

Output Format:

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Print the list of possiblilties.

Sample Input-1:

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12

Sample Output-1:

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[[2, 2, 3], [2, 6], [3, 4]]

Sample Input-2:

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16

Sample Output-2:

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[[2, 2, 2, 2], [2, 2, 4], [2, 8], [4, 4]]

Sample Input-3:

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32

Sample Output-3:

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[[2, 2, 2, 2, 2], [2, 2, 2, 4], [2, 2, 8], [2, 4, 4], [2, 16], [4, 8]]

