## A. Goshtasp, Vishtasp and Eidi

time limit per test: 5 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Goshtasp was known to be a good programmer in his school. One day Vishtasp, Goshtasp's friend, asked him to solve this task:

Given a positive integer n, you should determine whether n is rich.

The positive integer x is rich, if there exists some set of distinct numbers  $a_1, a_2, ..., a_m$  such that . In addition: every  $a_i$  should be either a prime number, or equal to 1.

Vishtasp said that he would share his Eidi 50/50 with Goshtasp, if he could solve the task. Eidi is money given to children for Noruz by their parents and/or relatives.

Goshtasp needs to solve this problem to get money, you need to solve it to get score!

## Input

Input contains a single positive integer n ( $1 \le n \le 10000$ ).

## **Output**

If the number is not rich print 0. Otherwise print the numbers  $a_1, ..., a_m$ . If several solutions exist print the lexicographically latest solution. Answers are compared as sequences of numbers, not as strings.

For comparing two sequences  $a_1, ..., a_m$  and  $b_1, ..., b_n$  we first find the first index i such that  $a_i \neq b_i$ , if  $a_i < b_i$  then a is lexicographically earlier and if  $b_i < a_i$  then b is lexicographically earlier. If  $m \neq n$  we add zeroes at the end of the smaller sequence (only for the moment of comparison) and then perform the comparison.

You do not need to minimize the number of elements in sequence (i.e. *m*). You just need to print the lexicographically <u>lat</u> est solution.

See samples to find out how to print the sequence.

## **Examples**

input		
11		
output 11=11		
11=11		

input	
545	
output	
541+3+1=545	