Time limit 2000/4000/4000/4000 ms. Memory limit 65000/65000/65000/65000 Kb.

1. Input two numbers (k and c) and calculate the value of y for x = 0.1, 1, 5 where y = kx + c   
     
   **Input:** Two numbers.  
   **Output:** The value of y for every x (line by line).

Input:   
3 4  
  
Output:  
x = 0.1 : y = 4.3  
x = 1 : y = 7  
x = 5 : y = 19

Input:  
12 -4  
  
Output:  
x = 0.1 : y = -2.8  
x = 1 : y = 8  
x = 5 : y = 56

2. Input two real numbers (x and y) and calculate the following mathematical expression :   
(x - 2y)x  
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    -2y   
**Input:** Two numbers.  
**Output:** Result of expression.

Input:  
1 1.6  
  
Output:  
0.6875

3. Given real numbers a,b,c. Double each number if the following inequality holds: а<=b<=с. Change every number to it’s absolute value, otherwise. For each test, output a,b,c.

Example:  
Input:  
3.1 4.1 5.1   
  
Output  
6.2  
8.2  
10.2  
  
  
Example:  
Input:  
-5.2 4.1 -1.0  
  
Output  
5.2 4.1 1.0

4. Given real numbers a, b, c, where a is not 0. Find if a quadratic inequality ах2 + bx + с = 0 has real roots. If it does, output them. If there are no solutions, output “no solution”. Output roots on one line, separated by a whitespace.

Example:  
Input:  
1 0 0   
  
Output  
0

5. Teacher’s day is celebrated each year on the first Sunday of the October. Given natural number n, that represents the number of the year. Output the date of the Teacher’s day of that year.

Example:  
Input:  
2010  
  
Output  
3

6. Given three natural numbers a, b, c which represent the day, month and year of some date. For example: 1, 4, 1991 represents 1st April 1991. Output three numbers which represent the following date.

Example:  
Input:  
1 4 1991  
  
Output  
2 4 1991

7. Given three natural numbers a, b, c which represent the day, month and year of some date. Output “yes" if the given date is correct and “no” otherwise.

Example:  
Input:  
32 1 1991  
  
Output  
no

8. Given 3 positive real numbers x, y, z. Output "YES" if it is possible to construct a triangle with side lengths x, y, z. Output "NO" otherwise.

Example:  
Input:  
3 4 5  
  
Output  
YES   
  
Example:  
Input:  
1 4 5  
  
Output  
NO