Straight Line

Input file:	**standard input**
Output file:	**standard output**
Time limit:	1 second
Memory limit:	256 megabytes

Given three points on the Cartesian plane. Determine whether a single straight line can pass through these points or not.

Input

First line contains two numbers X_1, Y_1 $(-10^5 \le X_1, Y_1 \le 10^5)$.

Second line contains two numbers X_2, Y_2 $(-10^5 \le X_2, Y_2 \le 10^5)$.

Third line contains two numbers X_3, Y_3 $(-10^5 \le X_3, Y_3 \le 10^5)$.

Output

Print "**YES**" if a single straight line can pass through the three points otherwise, print "**NO**".

Examples

standard input	standard output
1 1 2 2 3 3	YES
0 1 -4 7 3 3	NO