## 1 - Integer sort

You are given a string of integers, separated by spaces. The task is to simply sort these numbers into correct order, there may be repeats of numbers in input.

Output the result as a string of integers, separated by spaces.

## 2 - Morse decode

Given a sequence of "." and "-". Print the secret code as output. There will be one space in-between characters and 3 spaces between words.

The input is on a single line, with the morse code as a string.

Output the secret code on a single line. All characters should be in uppercase. Spaces between words should be represented by a single space.

For example:

Input:

>... --- ... ... --- ...

Output:

>SOS SOS

7	Letter	Morse
	A	*.
	В	***
	С	.*.*
	D	.**
-	E	*
	F	**_*
	G	*
	Н	****
	I	**
•	J	*
	K	.*.
	L	*.**
	M	=
	N	.*
	0	
	P	**
	Q	*.
	R	*_*
	S	***
	T	÷:
	U	**.
	V	***-
	W	*
	X	.**.
	Y	.*
	Z	_**

## 3 - Square coordinates

Given 4 cartesian coordinates that represent a square on a cartesian plane, output the number of points with integer coordinates that lie within, or on the sides of the square.

The input is given in a 2x4 2D array denoting the x y coordinates of each point that makes up the square in a clockwise direction.

Output a single integer denoting the number of points.

For example:

Input:

>[[1,1],[1,-1],[-1,-1],[-1,1]]

Output:

>9 (4 vertices, 4 on the edges, 1 within)

