1197 - Mega Searcher

Description

The Intranet, the vast network that feeds us, contains much information. So, it is not possible to find a particular file quickly. To resolve this problem arose network scanners, those wonderful tools that let you painlessly find any series, movie, game or photo you want "as we work, of course:)". Then, in view of this problem, Enrique decided to make a scanner, to demonstrate that it is not so difficult. The first version was a success, but soon received complaints from users who wanted to always know how long it takes to finish the search. In trying to resolve this problem, however, found a complication in the application module in charge of finding the computer on, because it was necessary to know the number of available IP addresses in the range to search. Enrique can not resolve this difficult problem, but is too proud to admit it. Can you help ?

Input specification

An IPv4 address as used in Cuba is in the form X.X.X.X, where X is a number between 0 and 255. Some of these are used for routing IP network to various methods of communication between servers and active elements and change depending on the configuration of the network. Some are reserved and have special meanings depending on the class to which they belong. For purposes of this problem, we assume that all IPs are valid and the Mega Searcher can be used with any kind of IP address. The entry consists of a range of IPs, that is, two valid IP addresses A and B (A > B), one in each input line.

Output specification

The output is a single number, the number of IPs theoretically valid in the interval [B, A].

Sample input

```
10.35.12.40
10.35.12.38
```

Sample output

3

Hint(s)

What is the difference between (B, A) and [B, A] ?

Source	Xtreme Programming Problem Archive (Jorge A. Soria)
Added by	**ejaltuna**
Addition date	2011-10-13 10:08:59.0
Time limit (ms)	10000
Test limit (ms)	1000
Memory limit (kb)	131072
Output limit (mb)	64
Size limit (bytes)	100000
Enabled languages	C C# C++ Java Pascal Perl PHP Python Ruby Text