We do not need to parse the dates; that information is mostly irrelevant. The only important thing about the specification of ISO formatting for date and time is that it tells us that there are no commas in each timestamp. This is helpful, because commas were used to delimit the different timestamps in the list.

So, the task reduces to just interpreting the input as a list of strings separated by commas, and then outputting the size of that list.

print(len(input().split(', ')))

More simply (especially if you're using a language without a builtin split method), you can also just count the number of times that the , character occurs in the input, then add +1 to it.

print(input().count(',') + 1)