



Day 2 – Task 3

Chairs

In an attempt to predict required number of chairs in the library of the Aglargond School of Magic, Ataranon, school's principal, ordered writing down the exact times of each person's entry and exit from the library. Write a program **CHAIRS** that counts the greatest number of people inside the library at one moment of time, if it is known that the total number of people that entered the library is **N**. Every person entered and exited the library during one day. The second one person enters or leaves the library is also counted as the second that person spent inside.

Input

The first line of input contains number **N** ($0 \leq N \leq 1000$). Next **N** lines contain hour, minute and second of entry and hour, minute and second of person's exit, separated by one space. Times are represented in the format **HH:MM:SS** where **HH** represents hours ($00 \leq HH \leq 23$), **MM** ($00 \leq MM \leq 59$) represents minutes and **SS** ($00 \leq SS \leq 59$) represents seconds.

Output

The output has exactly one line that contains only the greatest number of people inside the library at one moment.

Example

Input	Output
4	3
08:00:00 10:00:11	
09:00:23 14:00:06	
11:00:52 13:00:24	
11:15:17 13:15:08	

During the interval between 11:15:17 and 13:00:24 there were three persons inside the library.