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Playing with calendar dates

 locked

Problem

Submissions

Leaderboard

Discussions

Write a program to represent date as a data type and let programmer do different operations on dates mentioned below.

Implement (write definition) following functions.

```
typedef struct
{
    /* define appropriate members here */
}date;

/* sets all members of date and returns variable of type date */
date set_date(int mm, int dd, int yyyy, int hh, int mm, int ss);

/* prints date in DD/MM/YYYY HH:MM:SS format*/
void print_date(date d);

/* returns 1 if the date1 is later than date2, otherwise, it returns 0. */
short is_later(date date1, date date2);

/* sorts array of dates */
void sort_dates(date dates[], int n);
```

Using above definitions convert input data in desired output format.

Note: In programming world, 'date' normally means date and time together. If time is not provided or not needed to be displayed in the format then midnight 00:00:00 is used by default.

Input Format

Input will contain $n + 1$ lines.

First line will have number of dates as input (value of n).

Next n rows will have one date each in YYYY MM DD HH MM SS format.

Assume that input date will always be a valid date and 24-hour format is used.

Constraints

$0 < n$, year ≤ 9999

Inputs will have only valid dates from 0001-9999 year

Output Format

Output should have $n + 1$ lines.

First line will have number of dates as input (value of n).

Next n rows will have one date each in DD/MM/YYYY HH:MM:SS format. All n dates should be in ascending order.

Sample Input 0

```
4
2011 05 07 23 45 45
2014 05 07 23 45 45
0012 05 07 02 02 02
0001 01 01 01 01 01
```

Sample Output 0

```
4
01/01/0001 01:01:01
07/05/0012 02:02:02
07/05/2011 23:45:45
07/05/2014 23:45:45
```



Submissions: [125](#)

Max Score: 10

Difficulty: Medium

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C


```
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>

typedef struct
{
    /* define appropriate members here */
}date;

int main() {

    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
```

15	}
Line: 1 Col: 1	

 [Upload Code as File](#) ☐ Test against custom input

Run Code

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