

Deadline Order

CITS3001 Advanced Algorithms — Time limit: 3s

You have collected the deadlines of every assessment this semester (and several other semesters, apparently). Sort them chronologically.

Dates have three components — day, month, year — of different significance. Think about how radix sort orders multi-component keys, and which component it sorts by first.

Input

The first line contains an integer n ($1 \leq n \leq 2 \cdot 10^5$), the number of deadlines. Each of the next n lines contains one date in the format DD/MM/YYYY ($01 \leq \text{DD} \leq 28$, $01 \leq \text{MM} \leq 12$, $1900 \leq \text{YYYY} \leq 2100$). All dates are valid; the same date may appear multiple times.

Output

Output the n dates in chronological order (earliest first), one per line, in the same DD/MM/YYYY format. Repeated dates must be output as many times as they appear.

Sample Input 1

```
3
05/09/2026
17/08/2026
01/09/2026
```

Sample Output 1

```
17/08/2026
01/09/2026
05/09/2026
```

Sample Input 2

```
3
29/01/2026
01/01/2027
29/01/2026
```

Sample Output 2

```
29/01/2026
29/01/2026
01/01/2027
```