Calendar - coordinate n people for a meeting

Write an efficient algorithm to find a slot that is available among n calendars.
Please take the time to write clean code with a good breakdown.

Input: each calendar is represented by a list of meetings, you will be given a list of them.
Output: return a list of available slots.
Timestamps are formatted per ISO 8601 notation.

Sample data:

```
[
  {
    "name": "Betty",
    "meetings": [
      {
        "startTime": "2021-03-10T08:55:39+00:00",
        "endTime": "2021-03-10T09:15:39+00:00",
        "subject": "Meeting 1"
      },
      {
        "startTime": "2021-03-10T09:55:39+00:00",
        "endTime": "2021-03-10T10:15:39+00:00",
        "subject": "Meeting 2"
      },
      {
        "startTime": "2021-03-10T11:55:39+00:00",
        "endTime": "2021-03-10T12:15:39+00:00",
        "subject": "Meeting 3"
      }
    ]
  },
  {
    "name": "John",
    "meetings": [
      {
        "startTime": "2021-03-10T08:15:39+00:00",
        "endTime": "2021-03-10T09:55:39+00:00",
        "subject": "Meeting a"
      },
      {
        "startTime": "2021-03-10T10:15:39+00:00",
        "endTime": "2021-03-10T10:55:39+00:00",
        "subject": "Meeting b"
      },
      {
```

```
          "startTime": "2021-03-10T11:15:39+00:00",
          "endTime": "2021-03-10T12:55:39+00:00",
          "subject": "Meeting c"
        }
      ]
    }
]
```

<u>Expected result:</u>

```
[
  {
    "startTime": "2021-03-10T00:00:00+00:00",
    "endTime": "2021-03-10T08:15:39+00:00"
  },
  {
    "startTime": "2021-03-10T10:55:39+00:00",
    "endTime": "2021-03-10T11:15:39+00:00"
  },
  {
    "startTime": "2021-03-10T12:55:39+00:00",
    "endTime": "2021-03-10T23:59:59+00:00"
  }
]
```