Problem Challenge 3

We'll cover the following ⌄

- Employee Free Time (hard)
- Try it yourself

Employee Free Time (hard)

For 'K' employees, we are given a list of intervals representing the working hours of each employee. Our goal is to find out if there is a **free interval that is common to all employees**. You can assume that each list of employee working hours is sorted on the start time.

Example 1:

```
Input: Employee Working Hours=[[[1,3], [5,6]], [[2,3], [6,8]]]
Output: [3,5]
Explanation: Both the employees are free between [3,5].
```

Example 2:

```
Input: Employee Working Hours=[[[1,3], [9,12]], [[2,4]], [[6,8]]]
Output: [4,6], [8,9]
Explanation: All employees are free between [4,6] and [8,9].
```

Example 3:

```
Input: Employee Working Hours=[[[1,3]], [[2,4]], [[3,5], [7,9]]]
Output: [5,7]
Explanation: All employees are free between [5,7].
```

Try it yourself

Try solving this question here:

🔵 Java	🐍 Python3	JS JS	⊙ C++

```python
1   from __future__ import print_function
2
3   class Interval:
4       def __init__(self, start, end):
5           self.start = start
6           self.end = end
7
8       def print_interval(self):
9           print("[" + str(self.start) + ", " + str(self.end) + "]", end='')
10
11
12  def find_employee_free_time(schedule):
13      result = []
14      # TODO: Write your code here
15      return result
16
17
18  def main():
19
20      input = [[Interval(1, 3), Interval(5, 6)], [
21          Interval(2, 3), Interval(6, 8)]]
22      print("Free intervals: ", end='')
23      for interval in find_employee_free_time(input):
24          interval.print_interval()
25      print()
26
27      input = [[Interval(1, 3), Interval(9, 12)], [
28          Interval(2, 4)], [Interval(6, 8)]]
```
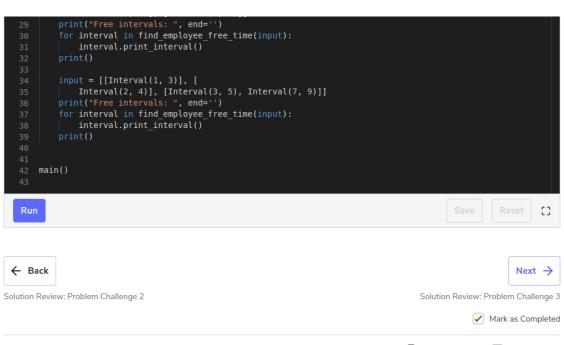
```
29    print("Free intervals: ", end='')
30    for interval in find_employee_free_time(input):
31        interval.print_interval()
32    print()
33
34    input = [[Interval(1, 3)], [
35        Interval(2, 4)], [Interval(3, 5), Interval(7, 9)]]
36    print("Free intervals: ", end='')
37    for interval in find_employee_free_time(input):
38        interval.print_interval()
39    print()
40
41
42 main()
43
```

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