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## Your company built an in-house calendar tool called HiCal. You want to add a feature to see the times in a day when *everyone* is available.

To do this, you'll need to know when *any* team is having a meeting. In HiCal, a meeting is stored as a <u>tuple</u> of integers (start\_time, end\_time). These integers represent the number of 30-minute blocks past 9:00am.

## For example:

```
(2, 3) # Meeting from 10:00 - 10:30 am

(6, 9) # Meeting from 12:00 - 1:30 pm
```

Write a function merge\_ranges() that takes a list of multiple meeting time ranges and returns a list of condensed ranges.

For example, given:

your function would return:

**Do not assume the meetings are in order.** The meeting times are coming from multiple teams.

Write a solution that's efficient even when we can't put a nice upper bound on the numbers representing our time ranges. Here we've simplified our times down to the number of 30-minute slots past 9:00 am. But we want the function to work even for very large numbers, like Unix timestamps. In any case, the spirit of the challenge is to merge meetings where start\_time and end\_time don't have an upper bound.

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