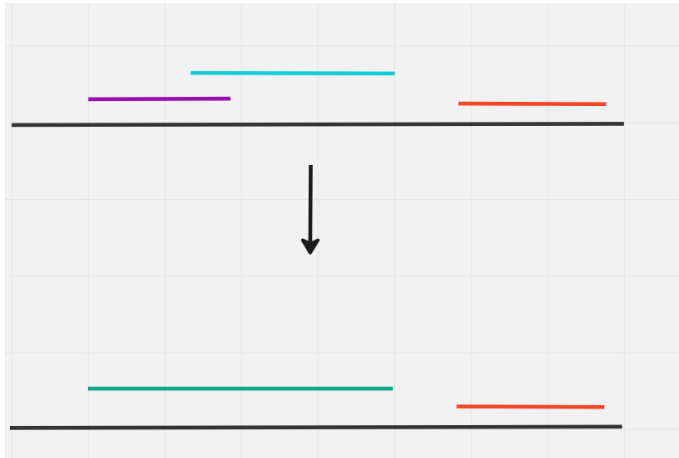# Showcase:

Input:
First line: integer value *num*.
Next "num" lines: integers *a* and *b*, forming the interval *[a,b]*
Output:
A list of merged intervals in sorted order.

Input	Output
9 45 51 1 2 2 3 5 9 6 12 7 11 19 23 23 25 30 31	1 3 5 12 19 25 30 31 45 51
5 1 3 5 12 19 25 30 31 45 51	Invalid interval