



$(1, 3) (8, 10) (2, 6) (15, 18)$

Sort the List

increasing order

(Start time)

$(1, 6) (8, 10) (15, 18)$

Logic

1) Sort the intervals on basis of
start time

2) Find the overlapping intervals

Merge them

$(1, 3) (2, 6)$ $\max(\text{lastEnd}, \text{interval}(1))$
 3, 6
 $(1, \underline{6})$

$(\underline{1}, 7) (2, 4)$ $\max(\text{lastEnd}, \text{interval}(1))$
 7, 4
 $(\underline{1}, \underline{7})$

3) No overlapping intervals

append it to
the result