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218. The Skyline Problem

Hard Topics Companies

A city's **skyline** is the outer contour of the silhouette formed by all the buildings in that city when viewed from a heights of all the buildings, return *the **skyline** formed by these buildings collectively*.

The geometric information of each building is given in the array `buildings` where `buildings[i] = [left_i, ri`

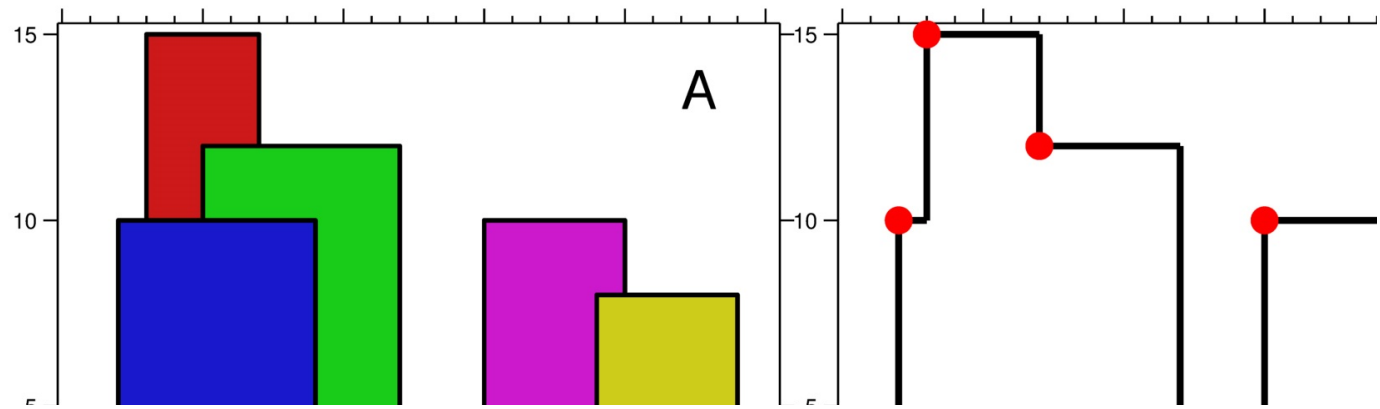
- `left_i` is the x coordinate of the left edge of the `i^th` building.
- `right_i` is the x coordinate of the right edge of the `i^th` building.
- `height_i` is the height of the `i^th` building.

You may assume all buildings are perfect rectangles grounded on an absolutely flat surface at height `0`.

The **skyline** should be represented as a list of "key points" **sorted by their x-coordinate** in the form `[[x_1,y_1],[` the left endpoint of some horizontal segment in the skyline except the last point in the list, which always has a y- the skyline's termination where the rightmost building ends. Any ground between the leftmost and rightmost bui skyline's contour.

Note: There must be no consecutive horizontal lines of equal height in the output skyline. For instance, `[...,[2 7],...]` is not acceptable; the three lines of height 5 should be merged into one in the final output as such: `[..`

Example 1:



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