![Graphical user interface, text, application, email

Description automatically generated]()

Problem statement: Now intuition

![A picture containing text

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Color range from 0 to 65535.sc is source node.

A picture containing diagram

Description automatically generated

Blue mark is source node as per given example.

![Graphical user interface, diagram

Description automatically generated]()

Here consider all adjacent to side as marked in image according to 1,1 given above.

Here we must replace 1,1 with new color 2. here 2 condition to fill rest of color

1.is only adjacent and 2. check if adjacent value same as old color then replace with new color. Same will be applied to adjacent element to check their side and if same as old color change value.

![Diagram

Description automatically generated]()![A picture containing shape

Description automatically generated]()

Updated array and return it.

Code:

![Text

Description automatically generated]()![Text

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TC:O(n) n is total number of pixels. (both row\*col) or O(x\*y) x is row and y is col.

SC:O(x\*y) as new visited array.