Level 3: Detect connected areas

Given a set of luminosity values, we need to determine the connected areas.

Output: Input of level 2 (i.e. image with connected areas of same brightness)

Example (see also next page)

Input: 12 19 0 0 0 0 ...

 Output: 12 19 0 0 0 0 ...

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Example (continued)

Input: 12 19 0 0 0 0 ...

The ellipses mark connected areas. Give each connected area an ID

Output: 12 19 0 0 0 0 ...

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