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Color search

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1st search: violet

|  |  |  |  |
| --- | --- | --- | --- |
| **First** | **Last** | **Middle** | **Comparison** |
| 0 | 10 | 5 | Violet>indigo |
| 6 | 10 | 8 | violet > red |
| 9 | 10 | 9 | violet = violet |
|  |  |  | Return true |
|  |  |  |  |

2nd search: green

|  |  |  |  |
| --- | --- | --- | --- |
| **First** | **Last** | **Middle** | **Comparison** |
| 0 | 10 | 5 | green<indigo |
| 4 | 10 | 7 | green<magenta |
| 6 | 7 | 6 | green<lavender |
| 5 | 6 | 5 | green<indigo |
| 4 | 5 | 4 | green=green |

3rd search: yellow

|  |  |  |  |
| --- | --- | --- | --- |
| **First** | **Last** | **Middle** | **Comparison** |
| 0 | 10 | 5 | yellow>indigo |
| 6 | 10 | 8 | yellow>red |
| 9 | 10 | 9 | yellow>violet |
| 10 | 10 | 10 | yellow=yellow |
|  |  |  | Return true |

**Color array**:

|  |  |
| --- | --- |
| aqua | [0] |
| brown | [1] |
| chartreuse | [2] |
| dark brown | [3] |
| green | [4] |
| indigo | [5] |
| lavender | [6] |
| magenta | [7] |
| red | [8] |
| violet | [9] |
| yellow | [10] |

Above: Binary Search Algorithm