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Binary Search

1st search: **violet**

| **First** | **Last** | **Middle** | **Comparison** |
| --- | --- | --- | --- |
| 0 | 10 | 5 | violet>indigo |
| 6 | 10 | 8 | violet>lavender |
| 8 | 10 | 9 | violet>red |
| 9 | 10 | 9 | Violet<yellow |
| 9 | 9 | 9 | Violet = violet |

2nd search: **green**

| **First** | **Last** | **Middle** | **Comparison** |
| --- | --- | --- | --- |
| 0 | 10 | 5 | Green<indigo |
| 0 | 4 | 2 | green>chartreuse |
| 2 | 4 | 3 | Green>dark brown |
| 3 | 4 | 3 | Green>dark brown |
| 4 | 4 | 4 | green= green |

3rd search: **yellow**

| **First** | **Last** | **Middle** | **Comparison** |
| --- | --- | --- | --- |
| 0 | 10 | 5 | Yellow>indigo |
| 6 | 10 | 8 | yellow> lavender |
| 9 | 10 | 9 | yellow>violet |
| 10 | 10 | 10 | Yellow = yellow |