

NAME: _____

CS21 Spring 2018, Written portion of Lab 8

Due in class Thursday, April 5 (Meeden) or Friday, April 6 (Fontes, Soni)

1. Given the following:

```
l = ["blue", "green", "indigo", "mauve", "orange", "red", "violet", "yellow"]
```

- (a) How many steps does it take to search for the value “orange” in the list using linear search?
- (b) How many steps does it take to search for the value “orange” in the list using binary search?
- (c) Show the values for `low`, `high`, and `mid` for each comparison step in searching for the color “violet” in the list using binary search.