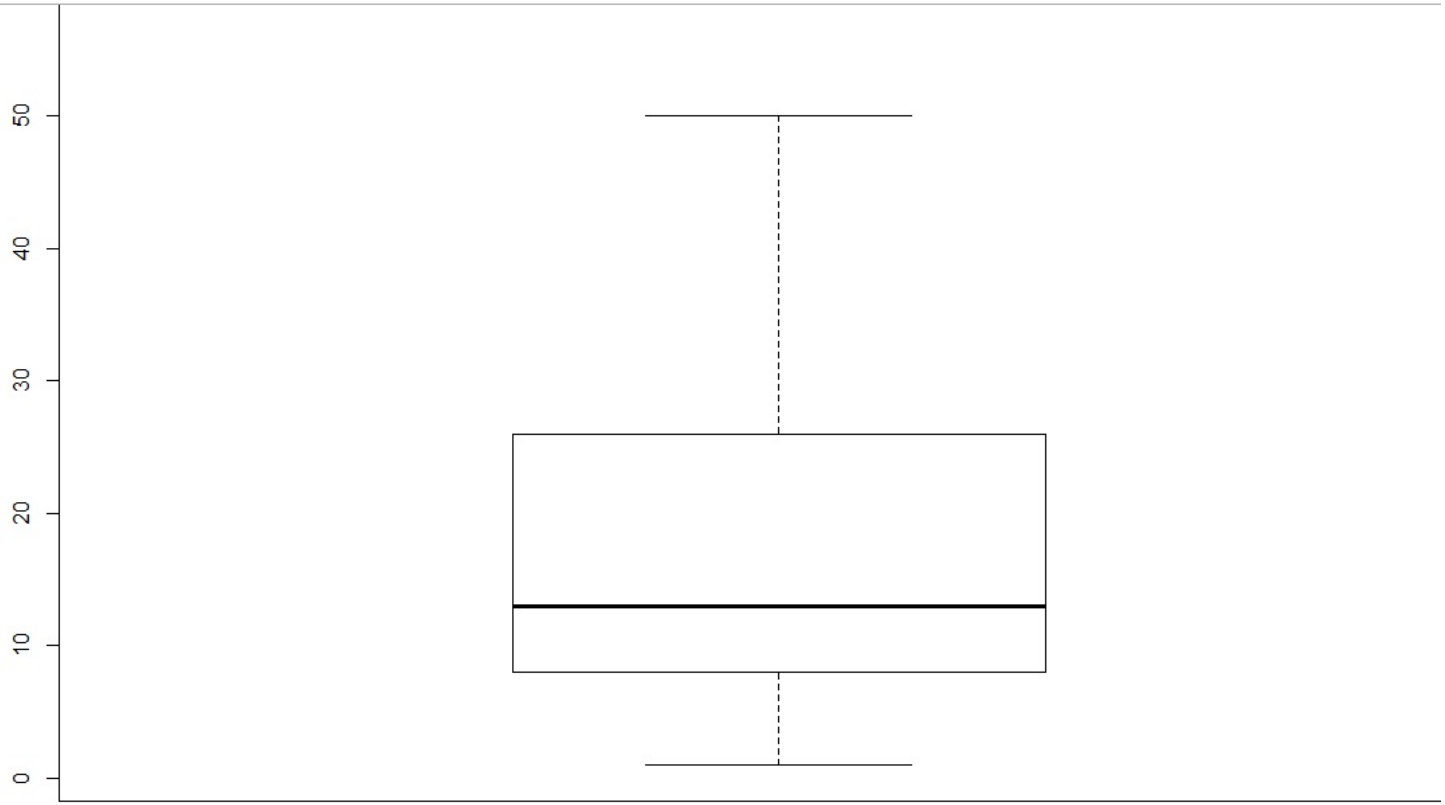
Quiz1

Question Completion Status:



- ○ 1. Mean = Median
- ◉ 2. Mean > Median
- ○ 3. Mean < Median
- ○ 4. Not enough information to answer

QUESTION 2

For given null (H0) and alternative (Ha) hypotheses, We perform a test under **significance level (alpha = 0.1)** and the result gives **p-value 0.08**. Then what is our conclusion?

- (●) Reject the null hypothesis
- ( ) NOT reject the null hypothesis
- ( ) I don't know

Quiz2

QUESTION 1 — **5 points** — Save Answer

Choose **incorrect** one.

- ( ) 1. ANOVA assumes normal distribution of data from each group
- (●) 2. We always have to perform post-hoc test regardless of the significance of the effect.
- ( ) 3. If homoscedasticiy (equal variance) assumption does not hold, we can perform alternative - Welch's ANOVA
- ( ) 4. The goal of ANOVA is to study the behavior of response variable (Y) in terms of categorical variables.

QUESTION 2 — **5 points** — Save Answer

Suppose that we run the 1-way ANOVA for **Salary** with **Race (White/ Black/ Asian)**. We then get the following ANOVA output and what is the **conclusion**?

```
            Df Sum Sq Mean Sq F value   Pr(>F)
Race         2   2426    1213   67.42 9.53e-16 ***
Residuals   57   1026      18
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```

- (●) 1. At least one race group has different mean of Salary
- ( ) 2. All race groups have different means of Salary
- ( ) 3. Not enough information to make the conclusion