

Non-Parametric Testing

Become Future Fit

You will learn

How to perform Non-Parametric Hypothesis Testing

Level of Difficulty

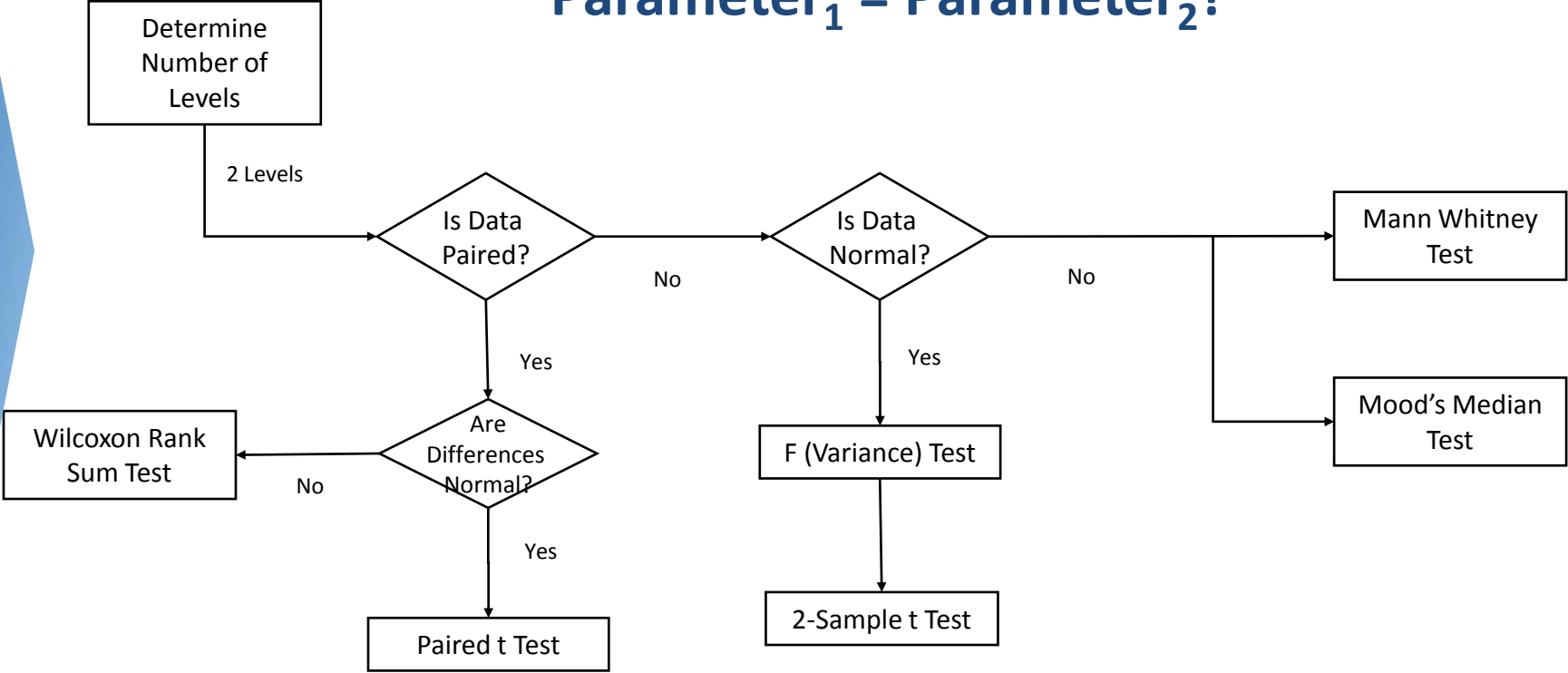


High

Service Level Performance

Performance data of last 2 weeks of two 2 teams of the same process is available. You wish to know to if statistically they are same?

Parameter₁ = Parameter₂?



Mann-Whitney Test

Assumes that the two samples have similar shapes even though they do not need to be normal and no outliers.

Mann-Whitney Test

- Works by combining the data points, sorting them numerically, and assigning a rank (1st, 2nd, 3rd, etc.) to each point. Then the ranks for each level are summed.
- Null hypothesis is that the sum of the ranks for each level will be equal

Mood's Median Test

- Is very robust to the shape of the data and to outliers
- Is robust tool of nonparametric testing

Mood's Median Test

- Works by calculating an overall median of all the data points.
- Tests the proportion of points above and below that overall median for each level

Activity in minitab