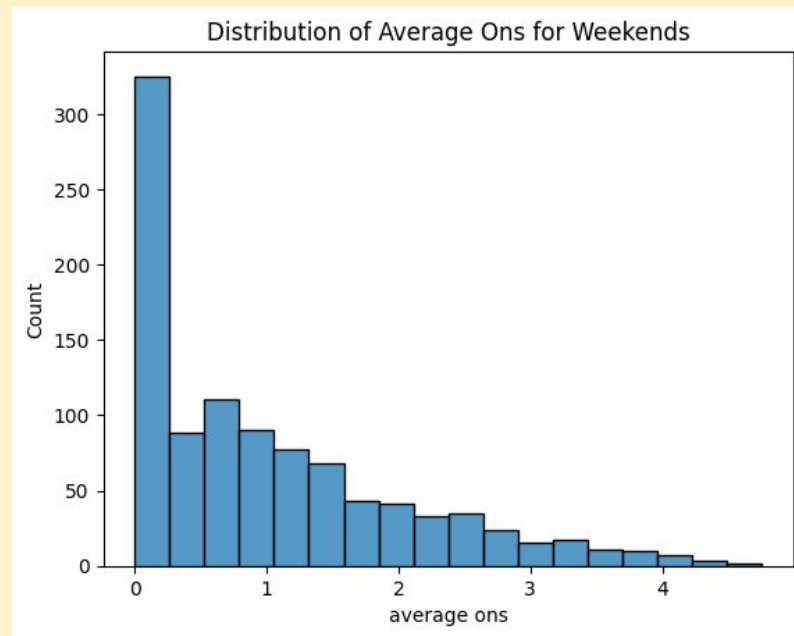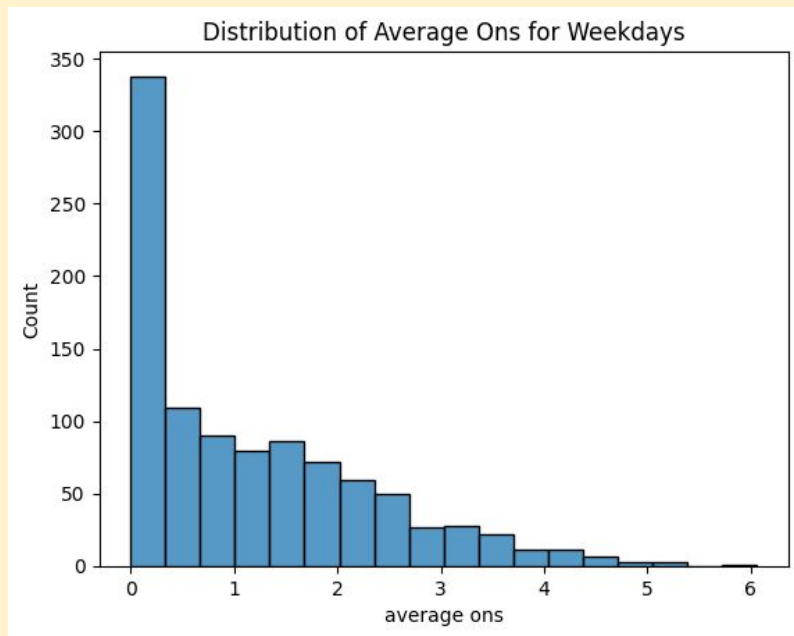# Do average bus boardings per stop differ significantly between weekdays and weekends, and is weekend service associated with significantly lower ridership in Pittsburgh?

Distribution of Average Ons for Weekdays

Distribution of Average Ons for Weekends

Average Onboarding Weekday vs Weekend Boxplot

avg_ons = β0 + β1(weekend) + ϵ

avg_ons = 1.1928 + β1(-0.1891) +ϵ
P > |t| = 0.000

Since the regression line is horizontal and the P values are 0, there is little variance in the means, and we can reject the null.