**Instructions**: Answer each question as thoroughly as possible. Round answers to 4 decimal places as needed. Exact answers are best when possible. Be sure to answer all parts of each question.

1. Do people work longer with breakfast than without? Use the data in the table and conduct a permutation test of the paired data to see if the means are different.

Work hours with breakfast	Work hours without breakfast
8	6
7	5
9	5
5	4
9	7
8	7
10	7
7	5
6	6
9	5

Ho: S=0

Ha: 8≠0

Su code file for associated code

one sidid p-value is 1×10-4, so 2-sided is 2×10-4 20.05

reject the null

there is reason there breakfast changes # & hours worked

2. Use bootstrapping to construct a 95% confidence interval of the data above. Compare the result to using a t-interval of the mean differences.

t-interval for déférences gives: 95% cont. (1,1796, 3.0204)

using bookhapping I got (1.4, 2.9)
which is similar but a little namower

your answers for the bookshap may vary.