1. You are a researcher for a randomized CCT program in Mexico. You have just received data from a household survey indicating whether the person in your sample was sick in the week prior to the survey. The variable was coded as 1 if the person was sick, and zero otherwise. You have data on 30 treatment and 30 control people, before the CCT took place in 1997, and after the CCT program took place in 1999.

Using the data provided determine the single and double difference estimators as well as the before an after estimator of the impact of the CCT program on the percent of people saying they were ill the week prior to the survey. Explain if you think the assumptions of the models are likely to hold.

| | Treatment | | Control | |
|---|---|---|---|---|
| Person | 1997 | 1999 | 1997 | 1999 |
| 1 | 1 | 1 | 0 | 0 |
| 2 | 1 | 0 | 0 | 0 |
| 3 | 1 | 0 | 1 | 1 |
| 4 | 0 | 0 | 1 | 1 |
| 5 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 1 | 0 |
| 8 | 1 | 1 | 0 | 0 |
| 9 | 1 | 1 | 0 | 0 |
| 10 | 1 | 0 | 1 | 1 |
| 11 | 1 | 0 | 1 | 0 |
| 12 | 0 | 0 | 1 | 0 |
| 13 | 0 | 0 | 1 | 0 |
| 14 | 0 | 0 | 0 | 1 |
| 15 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 1 |
| 17 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 1 | 0 |
| 19 | 1 | 1 | 1 | 0 |
| 20 | 0 | 0 | 1 | 1 |
| 21 | 0 | 0 | 1 | 1 |
| 22 | 1 | 1 | 0 | 1 |
| 23 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 |
| 25 | 1 | 0 | 0 | 0 |
| 26 | 0 | 0 | 1 | 1 |
| 27 | 0 | 0 | 0 | 0 |
| 28 | 0 | 1 | 0 | 0 |
| 29 | 1 | 0 | 0 | 0 |
| 30 | 1 | 0 | 0 | 0 |