## MATH 5090 - Quiz 7

Name:

-1- A large University facility has 50 new bulbs. The following observations represent the observed lifetimes, X (in days) of 40 of them. The technician stopped recording the data after observing the following 40 lifetimes.

Use the CM test statistic to test  $H_0: X \sim \text{Exp}(\theta)$  at a significance level of your choice.

-2- Test  $H_0: m_{_X}=7$  vs.  $H_0: m_{_X}<7$  at  $\alpha=0.1$  for the data set above. Use a sign test and sssume n=40.