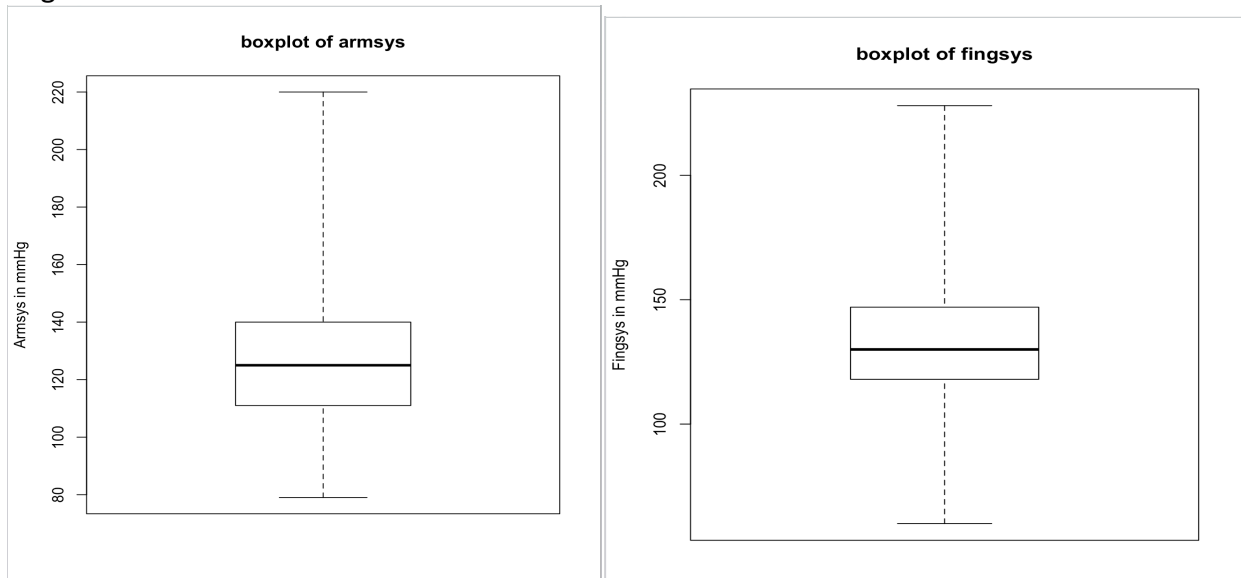
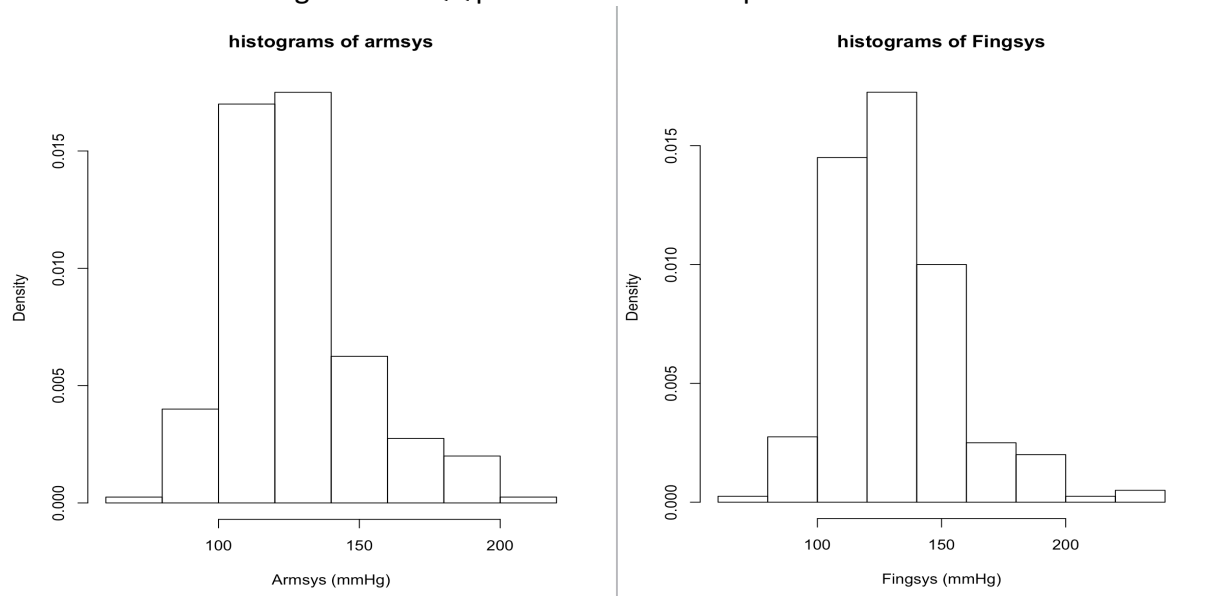


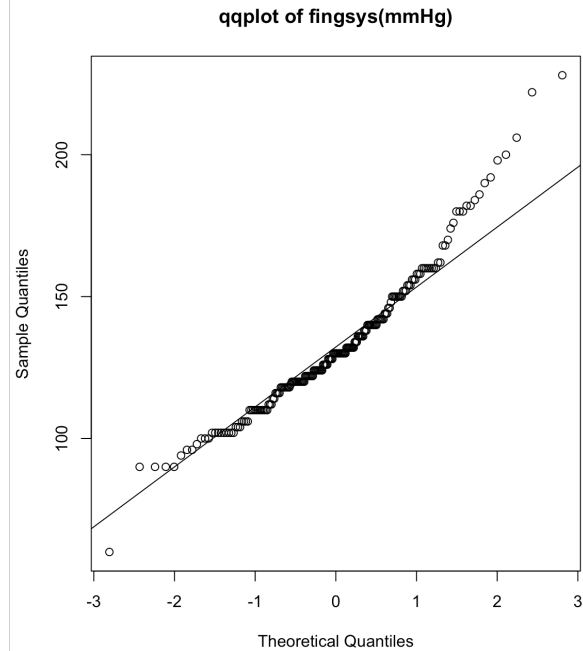
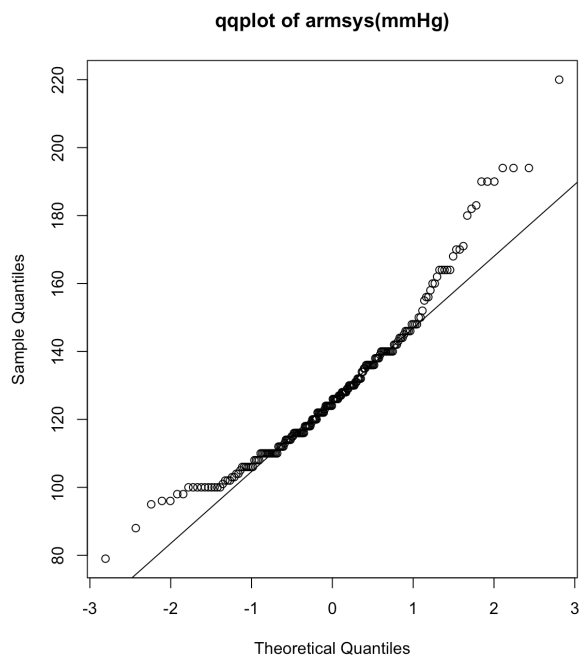
1. We made boxplots to examine the distributions of the measurements from two methods—a finger method and an arm method.



From above two boxplots, we can see that these two distribution are quite similar, but they are still different. The first one for armsys is a little bit right-screwed while second on for fingsys is almost symmetric.

2. Then we made histogram and QQ plot to exam the shape of the two distributions.





From histograms and qqplots, we can see that their normality is reasonable. The first one seems like right-screwed while the second one seems more symmetric.

3. Then we constructed an appropriate 95% confidence interval for the difference in the means of the two method, which is: $[-6.316529, -2.273471]$.

Therefore, their means are not identical. The mean of the armsys is smaller than the mean of fingsys.