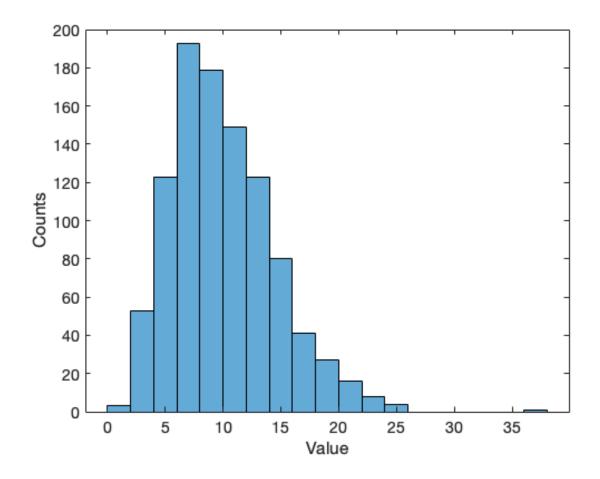
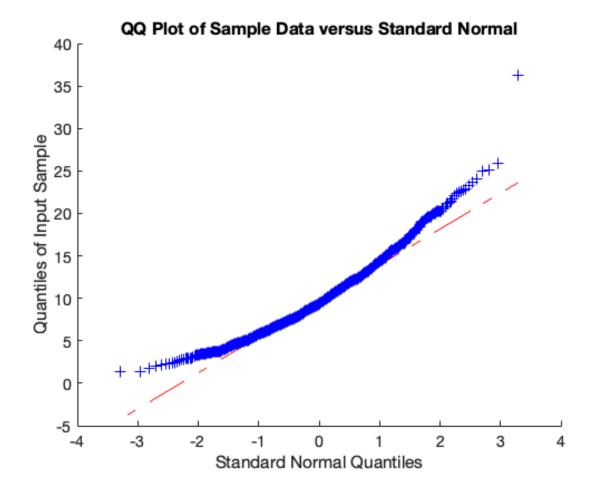
```
clear
\mathtt{data} = [-0.4326 \ -1.6656 \ 0.1253 \ 0.2877 \ -1.1465 \ 1.1909 \ 1.1892 \ -0.0376 \ 0.3273
 0.1746];
mu = mean(data);
sigma = std(data);
lower = mu - 2.262*sigma/sqrt(10)
upper = mu + 2.262*sigma/sqrt(10)
lower =
   -0.6450
upper =
    0.6475
Q3
for i =1:1000
```

```
X = exprnd(10,5,1);
    meanX(i) = mean(X);
end
figure;
histogram(meanX)
xlabel('Value')
ylabel('Counts')
set(gca,'fontsize',14)
figure;
qqplot(meanX)
set(gca,'fontsize',14)
```



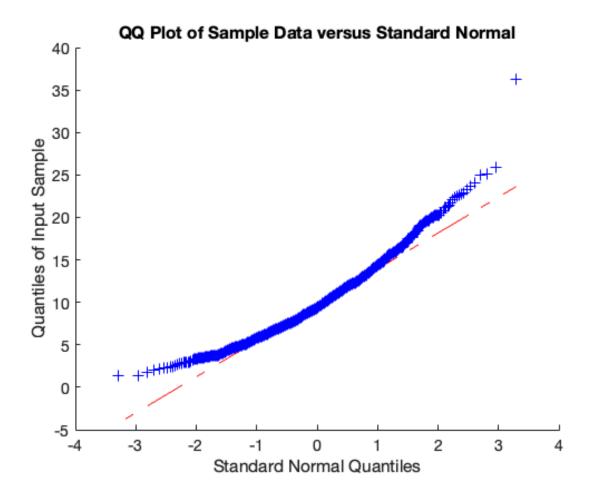


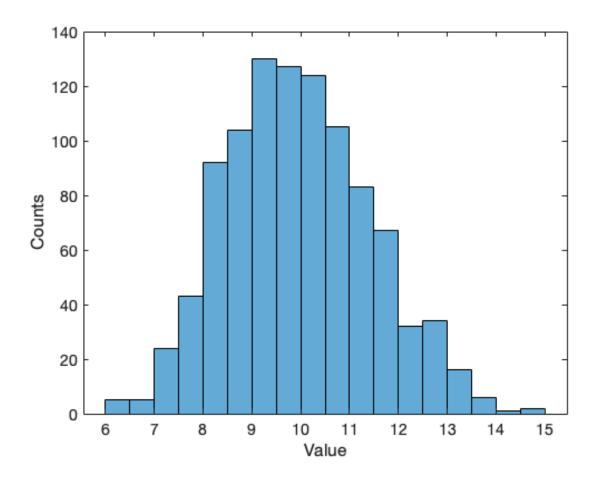
Q4

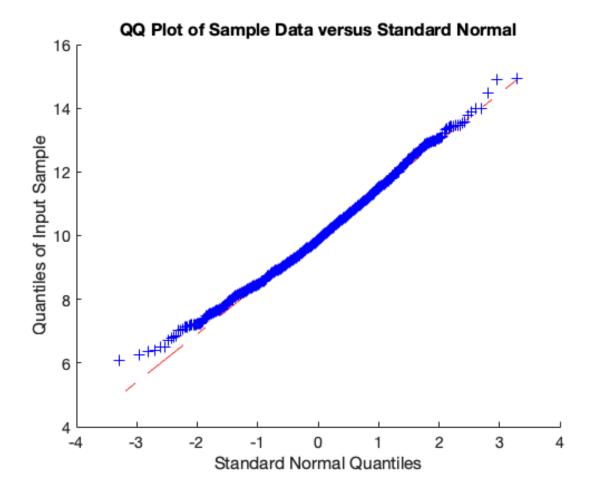
```
for i =1:1000
    X = exprnd(10,50,1);
    meanX(i) = mean(X);
end

figure;
histogram(meanX)
xlabel('Value')
ylabel('Counts')
set(gca,'fontsize',14)

figure;
qqplot(meanX)
set(gca,'fontsize',14)
```







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