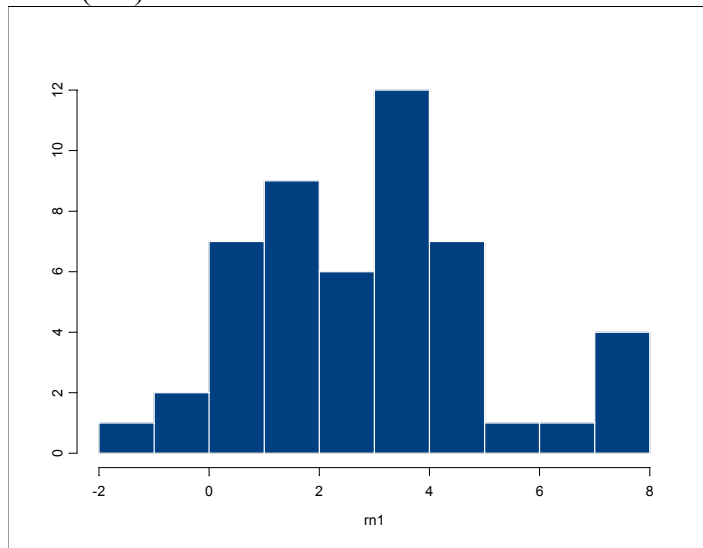


```

> rpois(25,2)
[1] 4 0 4 2 2 3 4 1 2 2 2 0 4 2 3 0 1 2 3 2 3 2 1 1 4
> rpois(25,2)
[1] 1 1 0 0 3 2 1 3 0 2 1 3 3 2 4 2 1 1 2 1 2 0 1 1 0
> rpois(50,0.8)
[1] 1 0 1 0 1 1 0 1 0 1 1 2 1 0 0 0 2 1 1 0 1 1 1 1 1 1 1 2 0 0 1 0 0 0
[35] 0 1 3 1 2 1 2 2 0 1 0 0 0 1 0 2
> rp1_rpois(50,0.8)
> rp1
[1] 1 1 0 1 0 0 3 0 0 0 2 1 2 1 1 0 0 0 3 2 2 1 0 0 0 0 1 1 0 0 4 2 2 0
[35] 0 1 0 0 3 1 0 0 1 0 1 1 1 2 1 1
> table(rp1)
 0  1  2  3  4
22 17  7  3  1
> dpois(0,2)
[1] 0.1353353
> dpois(1,2)
[1] 0.2706706
> dpois(2,2)
[1] 0.2706706
> dpois(8,2)
[1] 0.0008592716
> ppois(0,2)
[1] 0.1353353
> ppois(1,2)
[1] 0.4060058
> ppois(2,2)
[1] 0.6766764
> ppois(8,2)
[1] 0.9997626
> qpois(0.13,2)
[1] 0
> qpois(0.99,2)
[1] 6
> qpois(0.99976,2)
[1] 8
> rml_rnorm(50,2.5,2)
> rml
[1] 4.6177654 4.0927459 -0.8361690 4.3652370 3.7751027 2.5066899
[7] 3.7571562 2.4285396 2.3383391 1.5849482 3.3555571 1.6411542
[13] 0.4526367 3.4175223 5.1866023 3.1126577 0.4548576 7.1992665
[19] 3.5515292 3.4522934 1.5805502 0.7916248 0.3477250 3.6726404
[25] 7.4643293 3.0687602 4.1251184 1.2171178 0.8988925 2.8177286
[31] 7.4565542 2.2097759 1.9352159 4.7921766 -0.1569034 -1.2830115
[37] 4.6440321 3.0311853 4.3106845 1.0526270 7.7037905 3.4349307
[43] 6.2165512 1.7774615 0.8215437 2.5114627 1.6167209 1.6707721
[49] 0.6745871 3.1453932

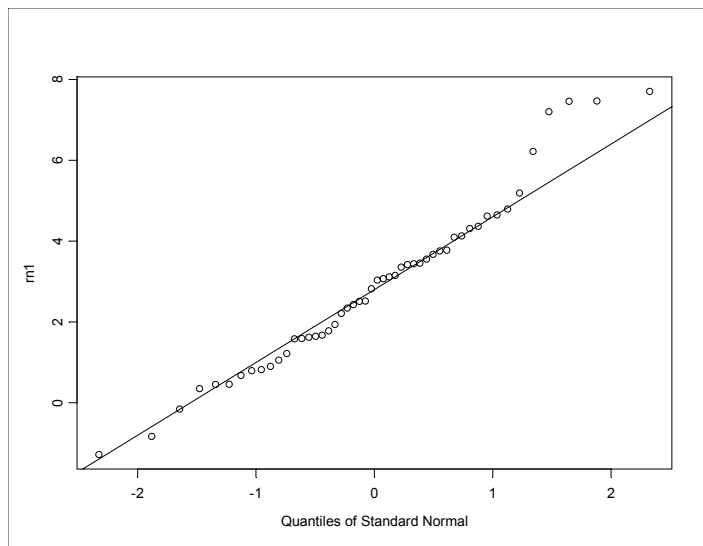
```

```
> hist(m1)
```



```
> qqnorm(m1)
```

```
> qqline(m1)
```



```
> dnorm(2.5,2.5,2)
```

```
[1] 0.1994711
```

```
> pnorm(2.5,2.5,2)
```

```
[1] 0.5
```

```
> qnorm(0.93,2.5,2)
```

```
[1] 5.451582
```

```
> qnorm(0.95,2.5,2)
```

```
[1] 5.789707
```

```
> t.test(m1,mu=4)
```

One-sample t-Test

data: m1

t = -3.783, df = 49, p-value = 0.0004

alternative hypothesis: true mean is not equal to 4

95 percent confidence interval:
2.285175 3.475004
sample estimates:
mean of x
2.880089
> t.test(rn1,conf.level=0.90)

One-sample t-Test

data: rn1
t = 9.7287, df = 49, p-value = 0
alternative hypothesis: true mean is not equal to 0
90 percent confidence interval:
2.383763 3.376416
sample estimates:
mean of x
2.880089

> t.test(rn1,mu=2.5,conf.level=0.90)

One-sample t-Test

data: rn1
t = 1.2839, df = 49, p-value = 0.2052
alternative hypothesis: true mean is not equal to 2.5
90 percent confidence interval:
2.383763 3.376416
sample estimates:
mean of x
2.880089

> t.test(rn1,mu=2.88,conf.level=0.90)

One-sample t-Test

data: rn1
t = 0.0003, df = 49, p-value = 0.9998
alternative hypothesis: true mean is not equal to 2.88
90 percent confidence interval:
2.383763 3.376416
sample estimates:
mean of x
2.880089