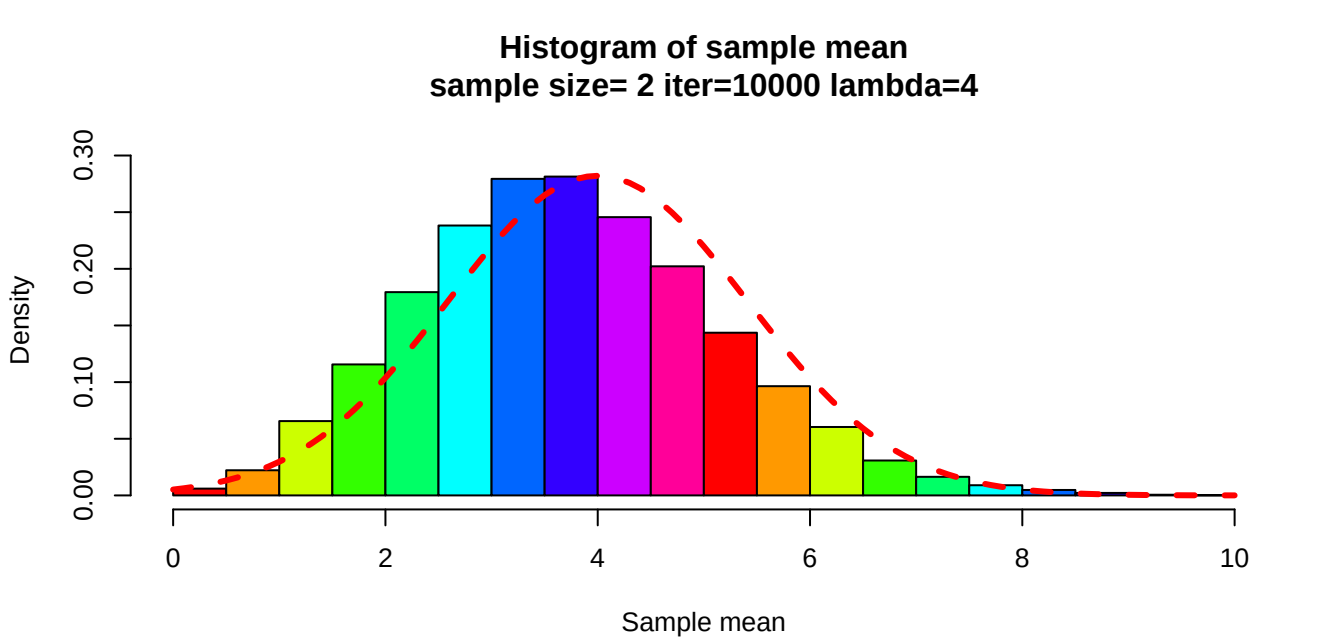
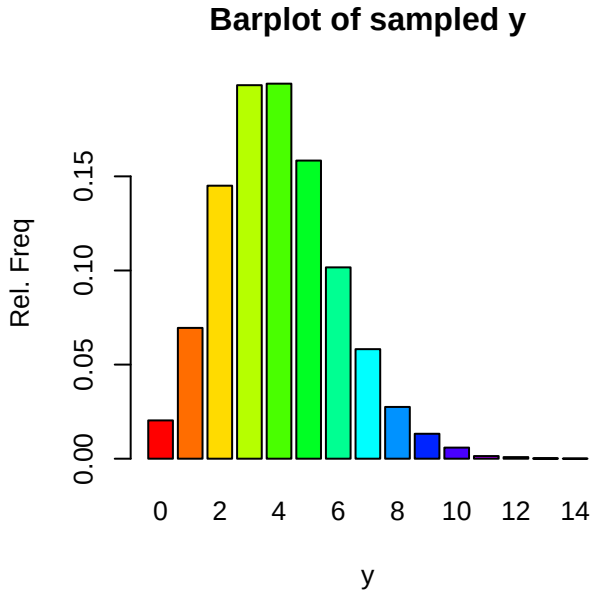
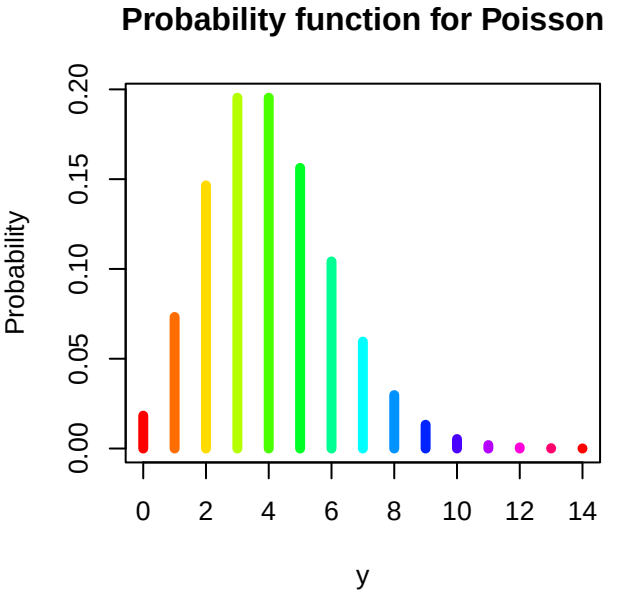
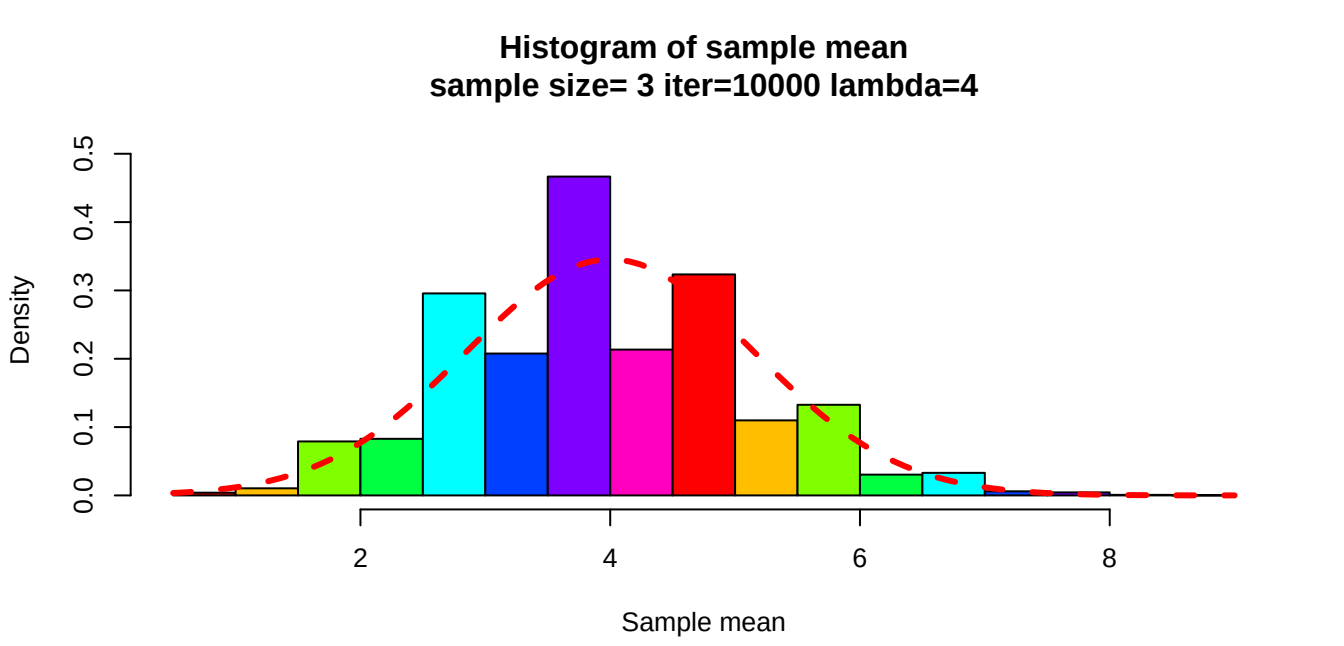
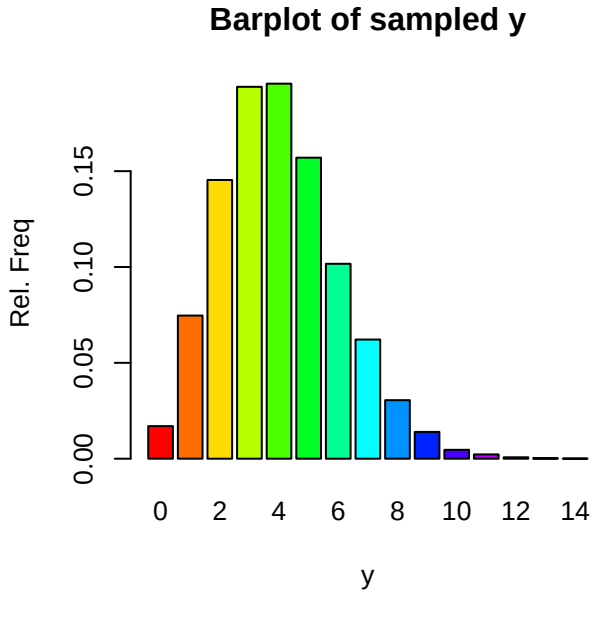
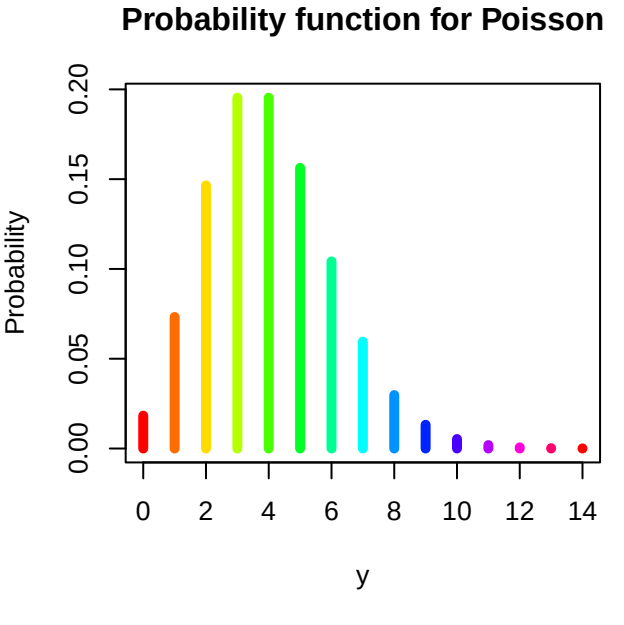

Histogram of sample mean
sample size= 2 iter=10000 lambda=4
Density
0.00
0.10
0.20
0.30
0
2
4
6
8
10
Sample mean

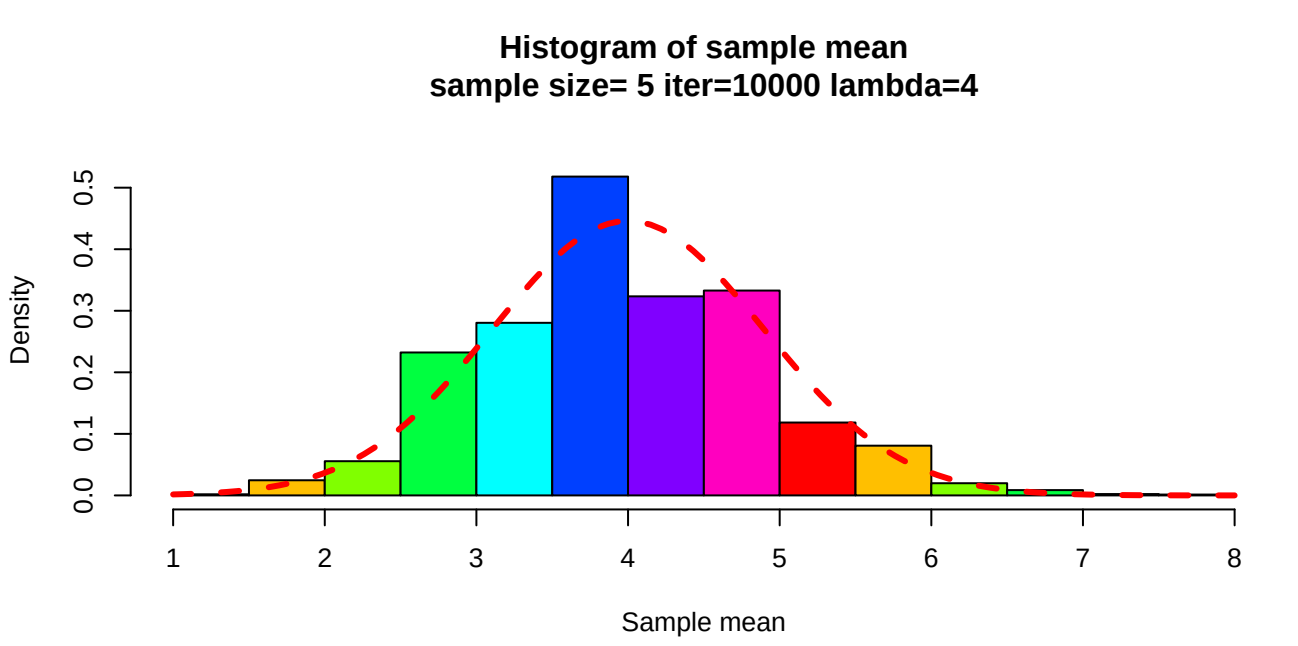

Barplot of sampled y
Rel. Freq
0.00
0.05
0.10
0.15
0
2
4
6
8
10
12
14
y

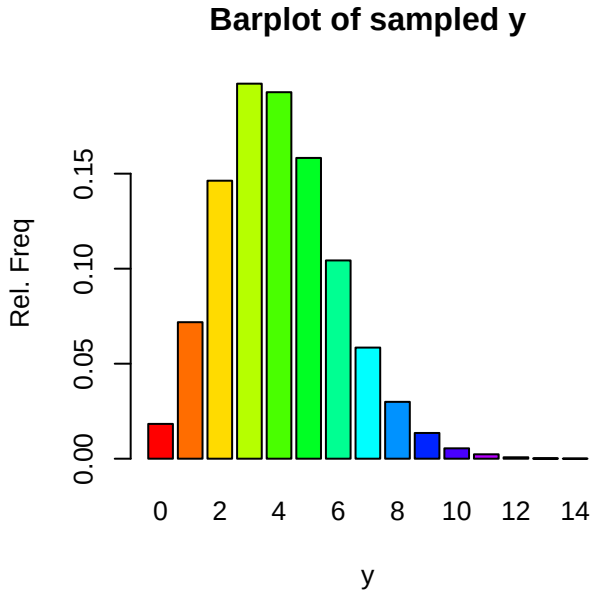

Probability function for Poisson
Probability
0.00
0.05
0.10
0.15
0.20
0
2
4
6
8
10
12
14
y

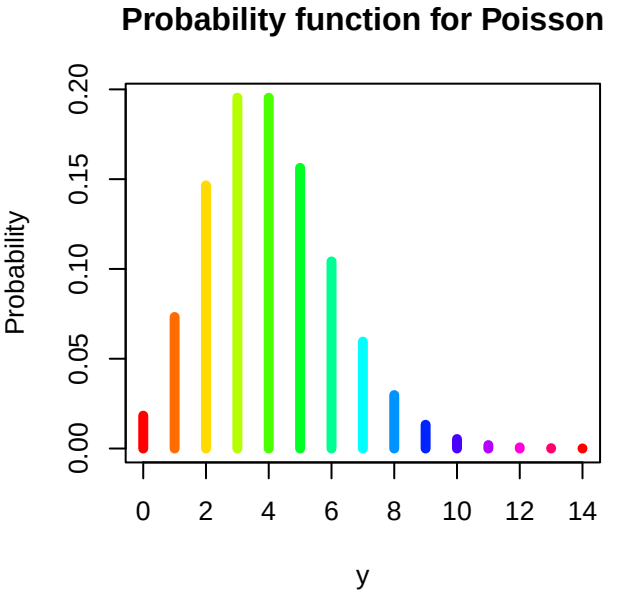

Histogram of sample mean
sample size= 3 iter=10000 lambda=4
Density
0.0
0.1
0.2
0.3
0.4
0.5
2
4
6
8
Sample mean

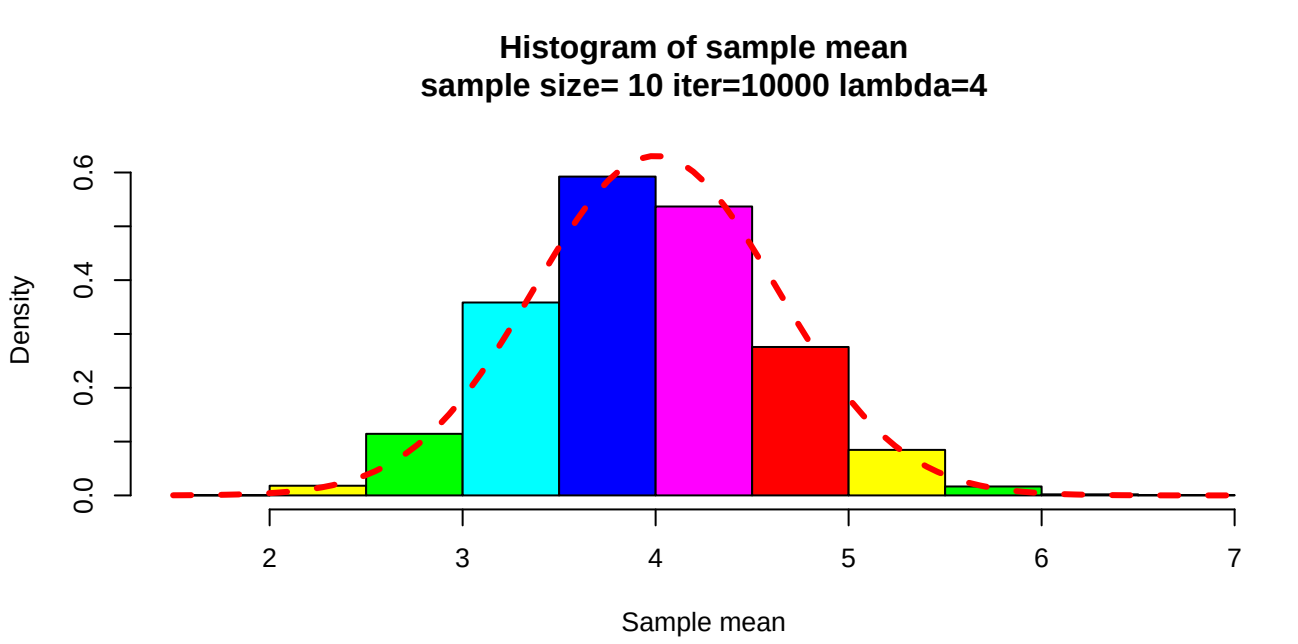

Barplot of sampled y
Rel. Freq
0.00
0.05
0.10
0.15
0
2
4
6
8
10
12
14
y

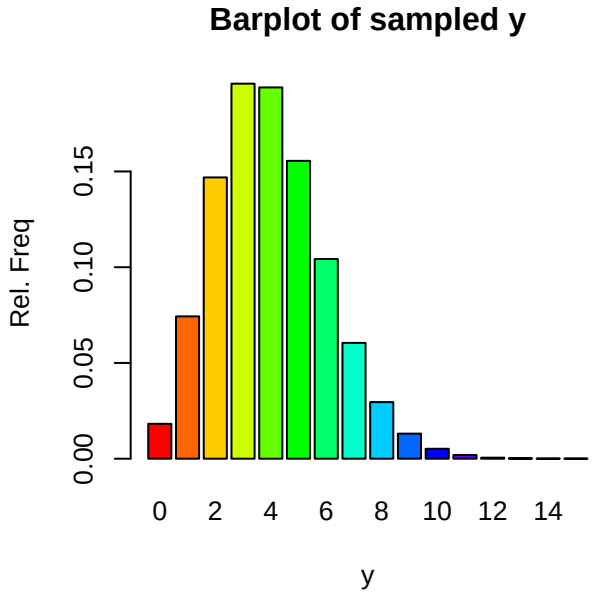

Probability function for Poisson
Probability
0.00
0.05
0.10
0.15
0.20
0
2
4
6
8
10
12
14
y

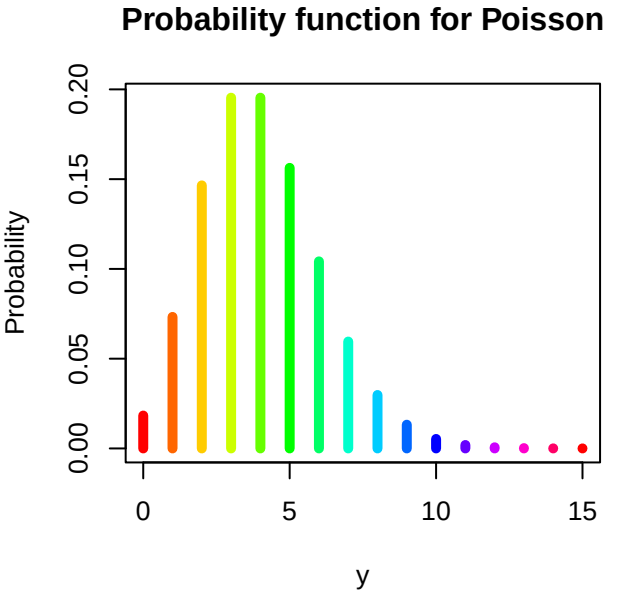

Histogram of sample mean
sample size= 5 iter=10000 lambda=4
Density
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
4
5
6
7
8
Sample mean

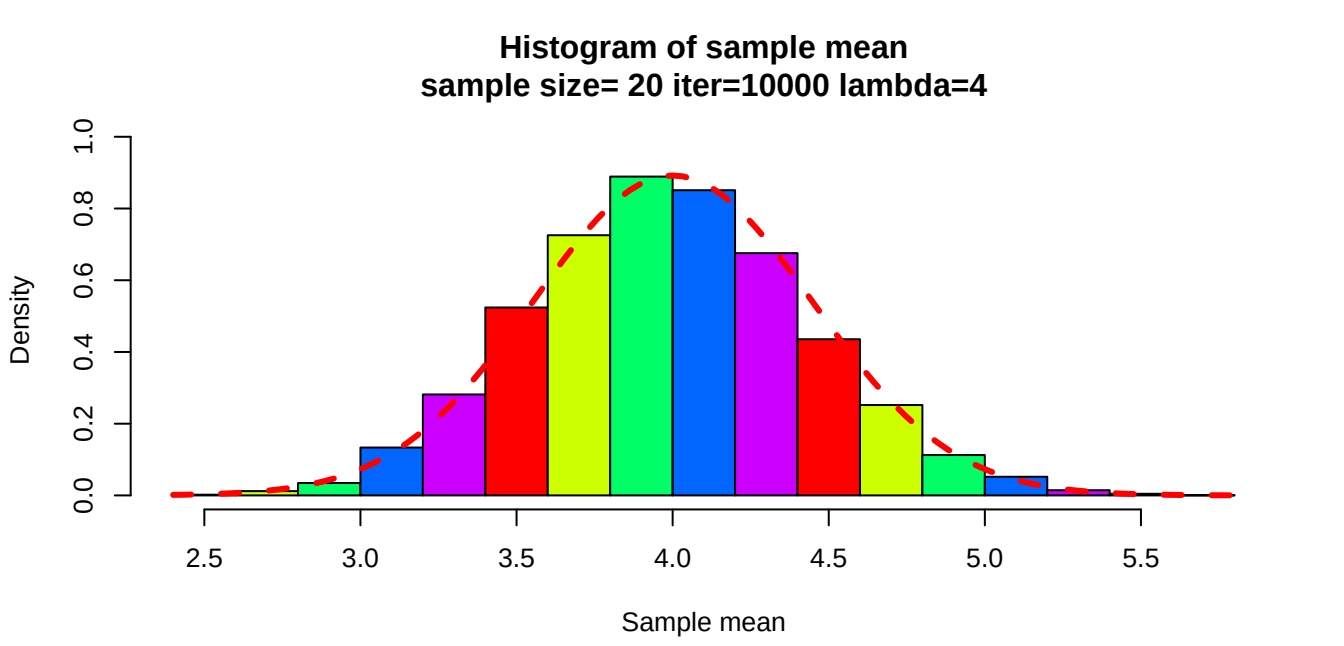

Barplot of sampled y
Rel. Freq
0.00
0.05
0.10
0.15
0
2
4
6
8
10
12
14
y

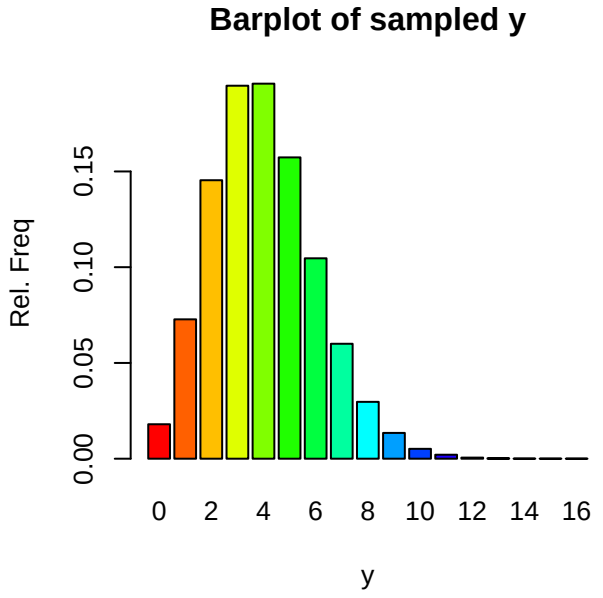

Probability function for Poisson
Probability
0.00
0.05
0.10
0.15
0.20
0
2
4
6
8
10
12
14
y

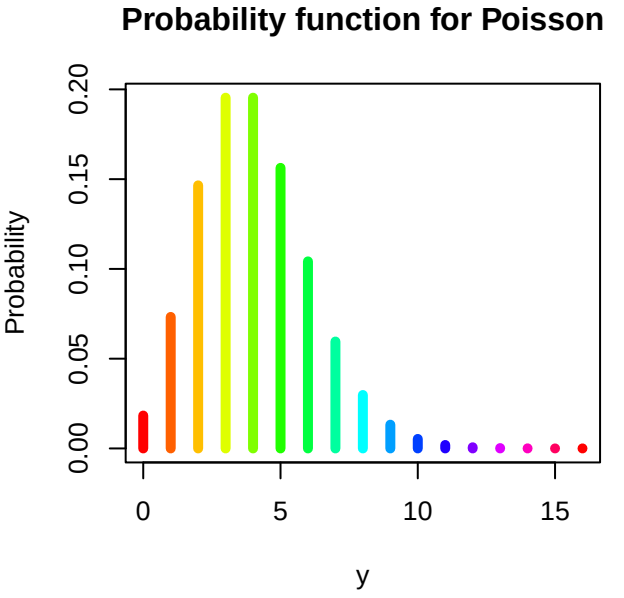

Histogram of sample mean
sample size= 10 iter=10000 lambda=4
Density
0.0
0.2
0.4
0.6
2
3
4
5
6
7
Sample mean

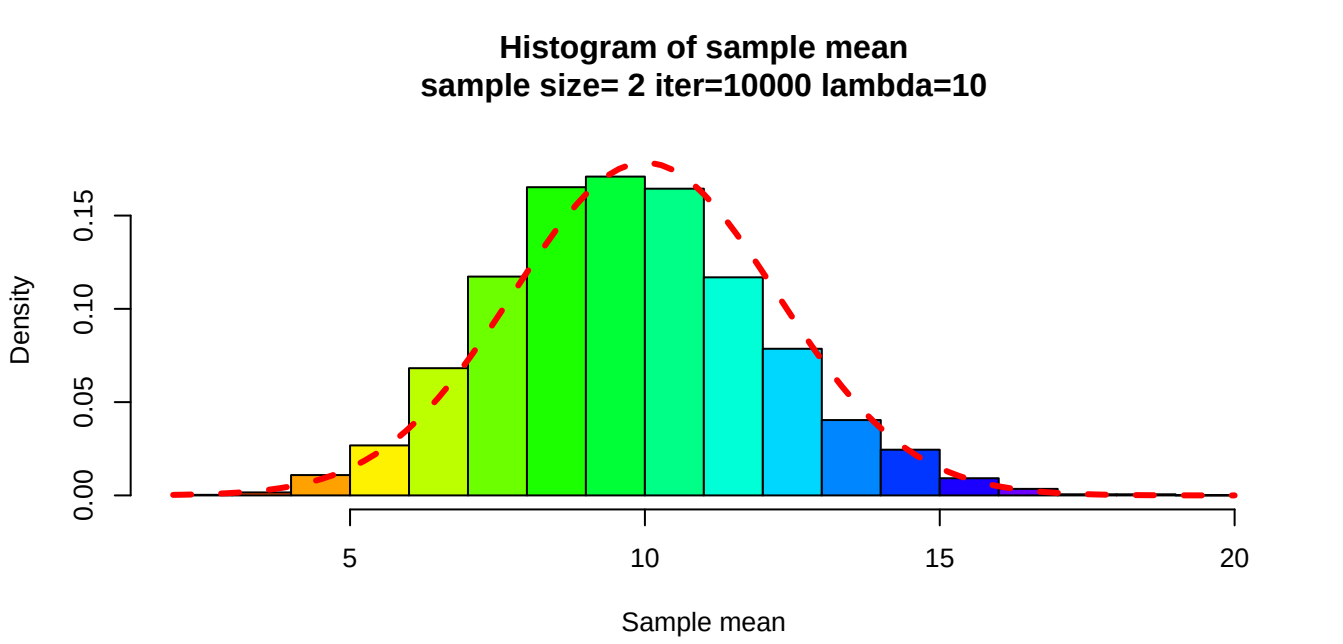

Barplot of sampled y
Rel. Freq
0.00
0.05
0.10
0.15
0
2
4
6
8
10
12
14
y

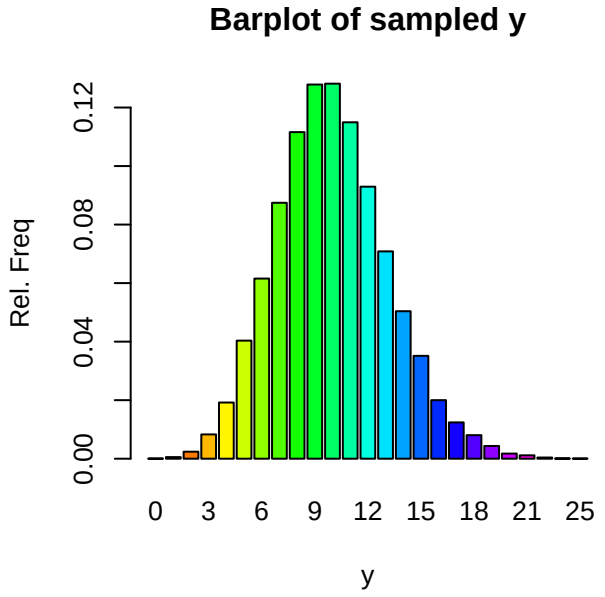

Probability function for Poisson
Probability
0.00
0.05
0.10
0.15
0.20
0
5
10
15
y

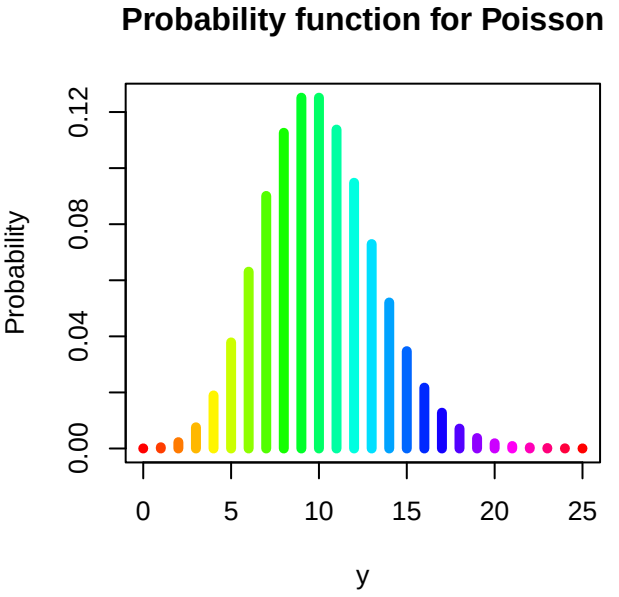

Histogram of sample mean
sample size= 20 iter=10000 lambda=4
Density
0.0
0.2
0.4
0.6
0.8
1.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
Sample mean

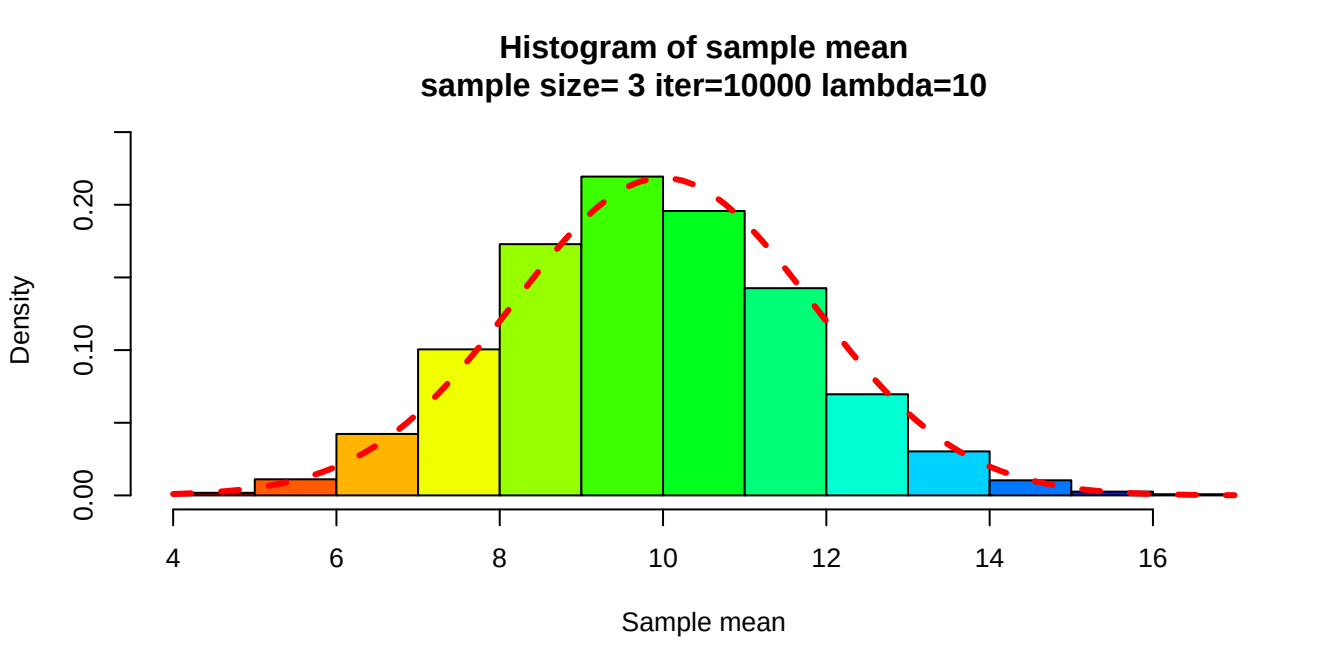

Barplot of sampled y
Rel. Freq
0.00
0.05
0.10
0.15
0
2
4
6
8
10
12
14
16
y

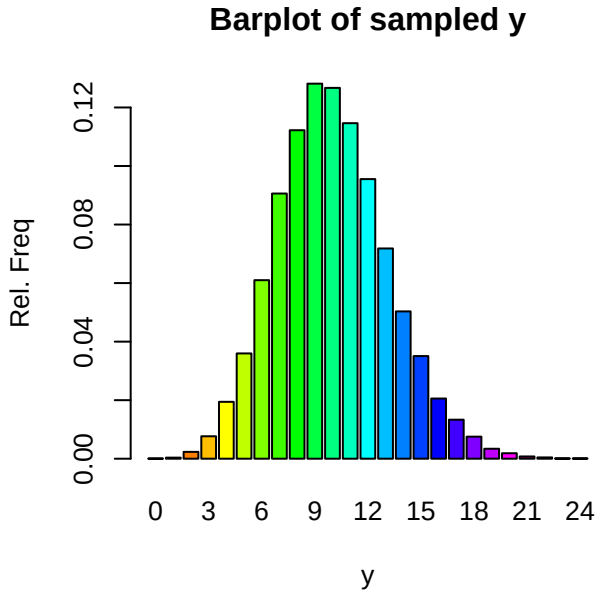

Probability function for Poisson
Probability
0.00
0.05
0.10
0.15
0.20
0
5
10
15
y

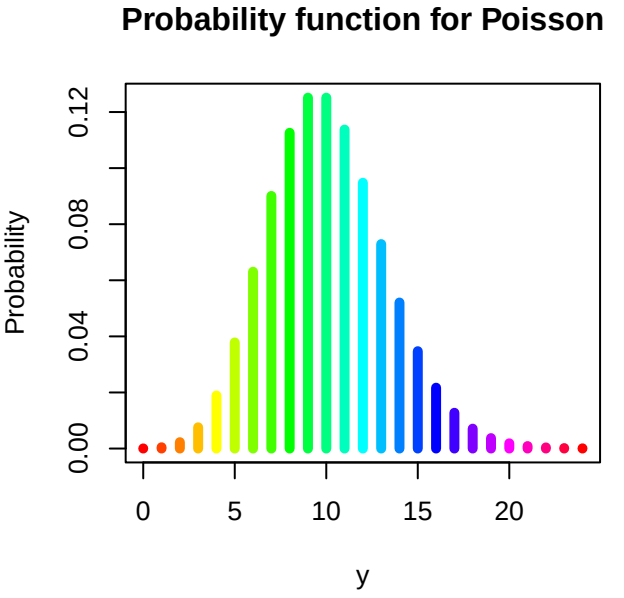

Histogram of sample mean
sample size= 2 iter=10000 lambda=10
Density
0.00
0.05
0.10
0.15
5
10
15
20
Sample mean

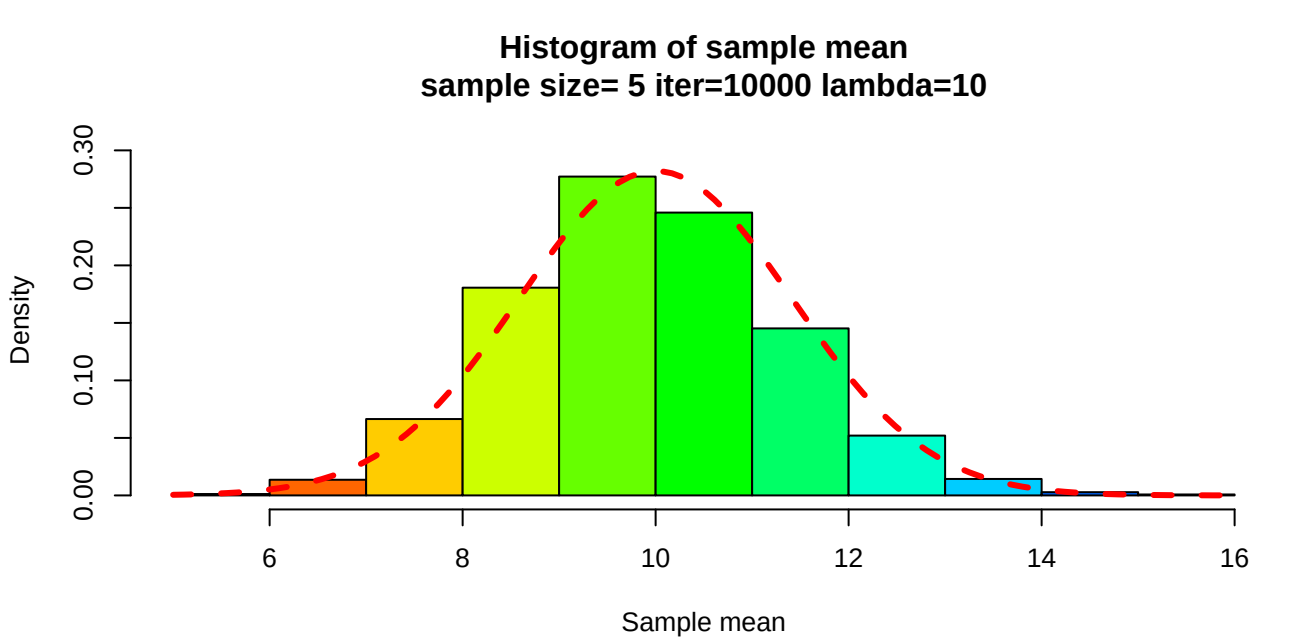

Barplot of sampled y
Rel. Freq
0.00
0.04
0.08
0.12
0
3
6
9
12
15
18
21
25
y

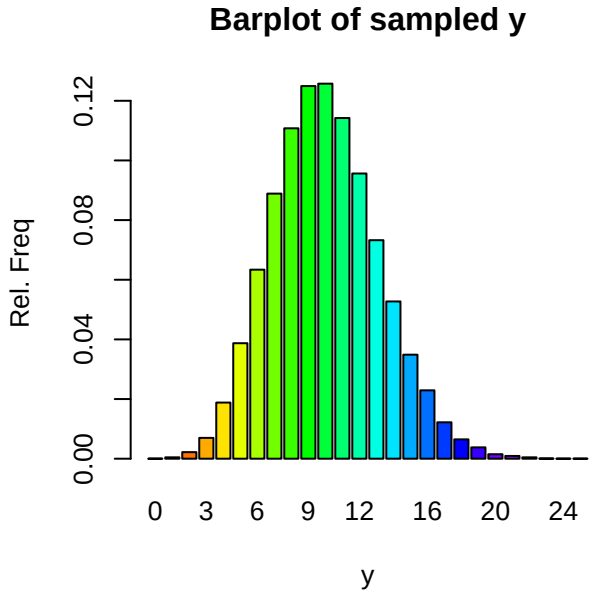

Probability function for Poisson
Probability
0.00
0.04
0.08
0.12
0
5
10
15
20
25
y

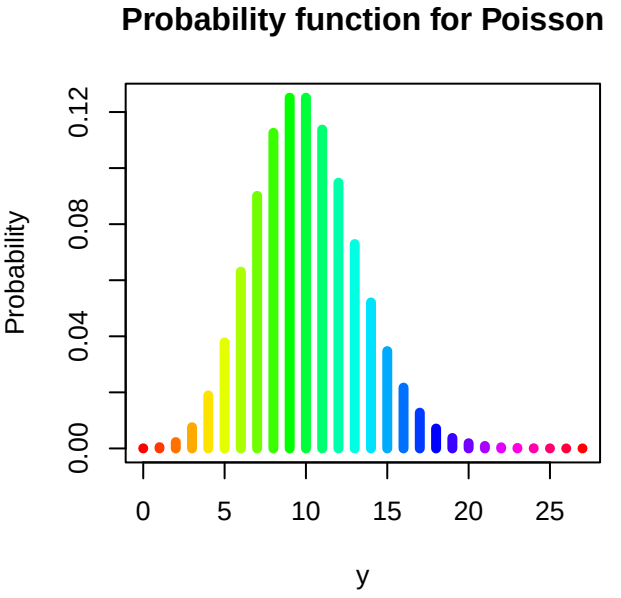

Histogram of sample mean
sample size= 3 iter=10000 lambda=10
Density
0.00
0.10
0.20
4
6
8
10
12
14
16
Sample mean

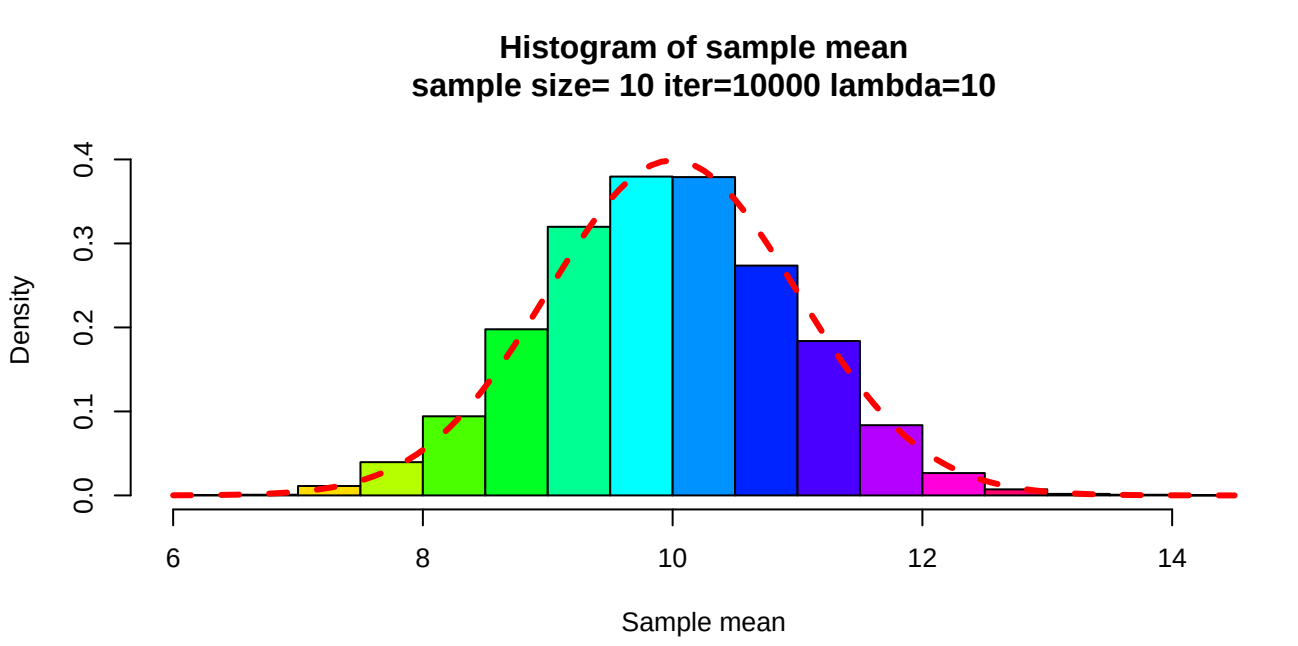

Barplot of sampled y
Rel. Freq
0.00
0.04
0.08
0.12
0
3
6
9
12
15
18
21
24
y

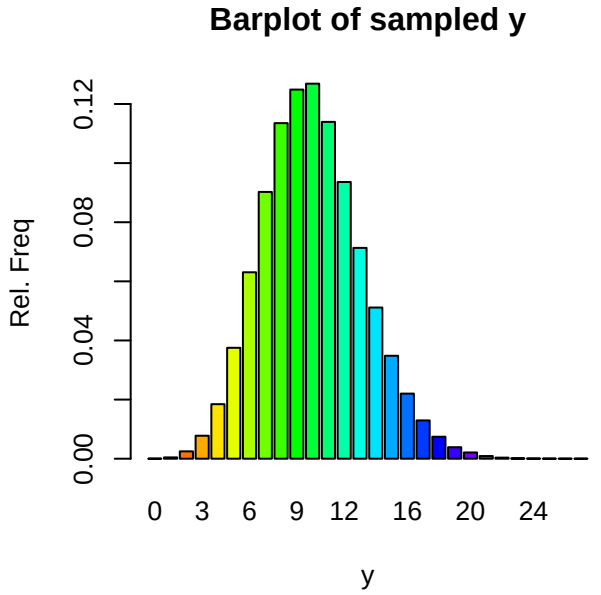

Probability function for Poisson
Probability
0.00
0.04
0.08
0.12
0
5
10
15
20
y

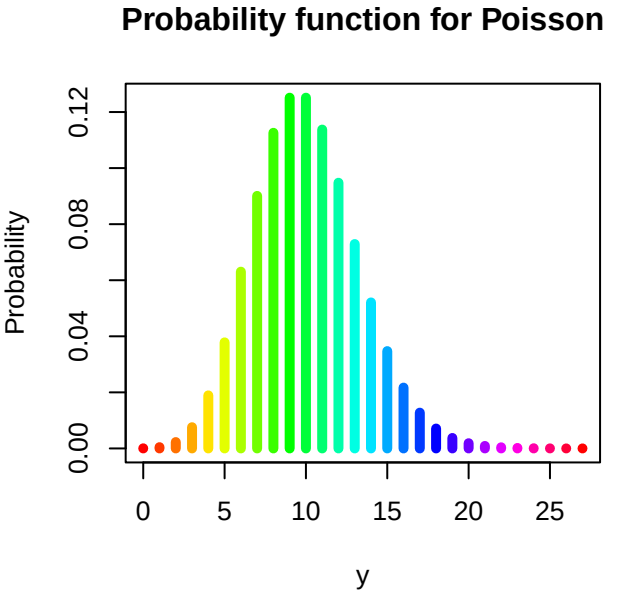

Histogram of sample mean
sample size= 5 iter=10000 lambda=10
Density
0.00
0.10
0.20
0.30
6
8
10
12
14
16
Sample mean

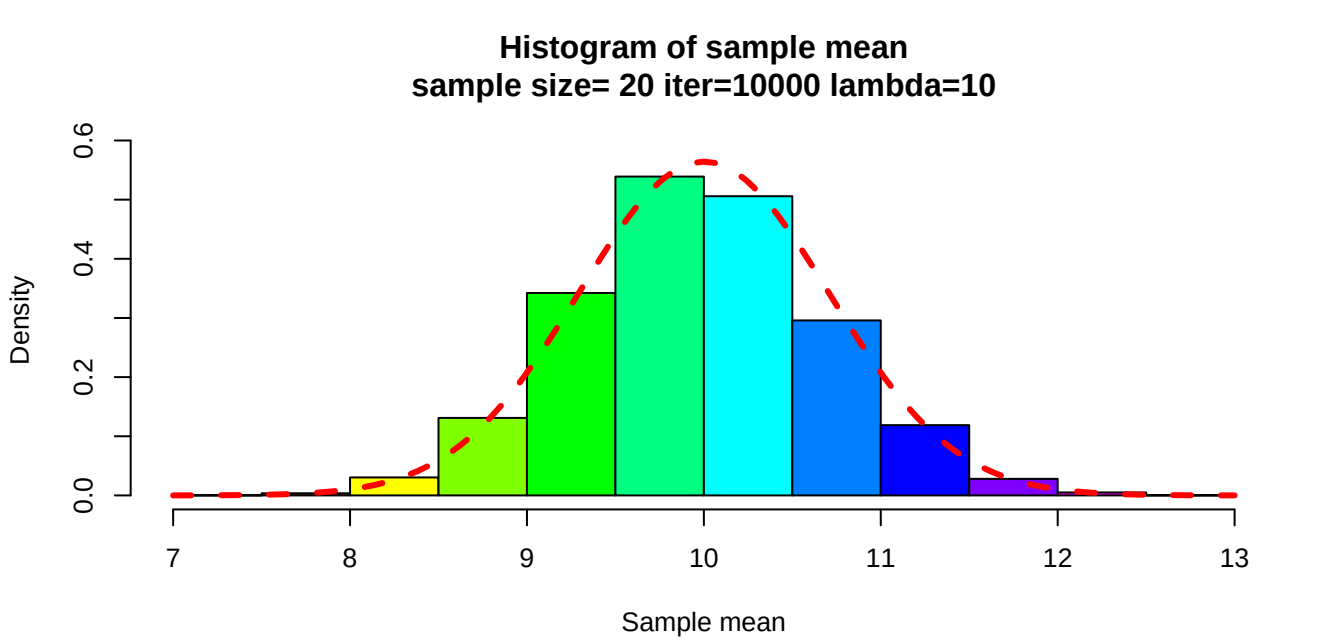

Barplot of sampled y
Rel. Freq
0.00
0.04
0.08
0.12
0
3
6
9
12
16
20
24
y

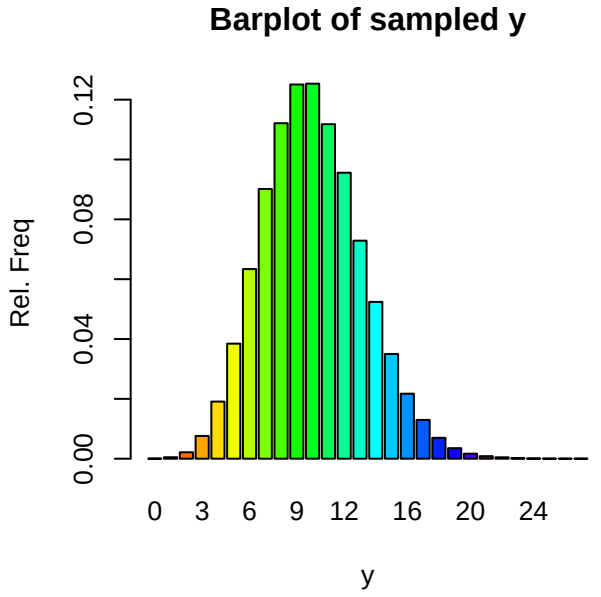

Probability function for Poisson
Probability
0.00
0.04
0.08
0.12
0
5
10
15
20
25
y

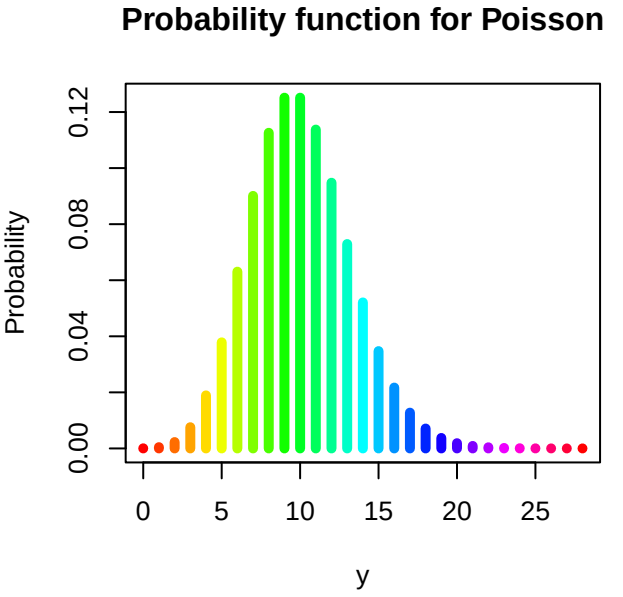

Histogram of sample mean
sample size= 10 iter=10000 lambda=10
Density
0.0
0.1
0.2
0.3
0.4
6
8
10
12
14
Sample mean

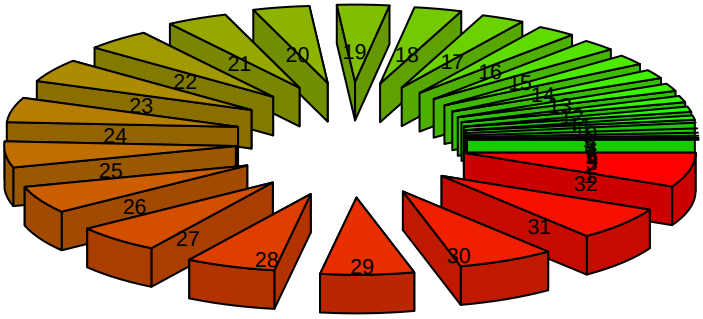

Barplot of sampled y
Rel. Freq
0.00
0.04
0.08
0.12
0
3
6
9
12
16
20
24
y

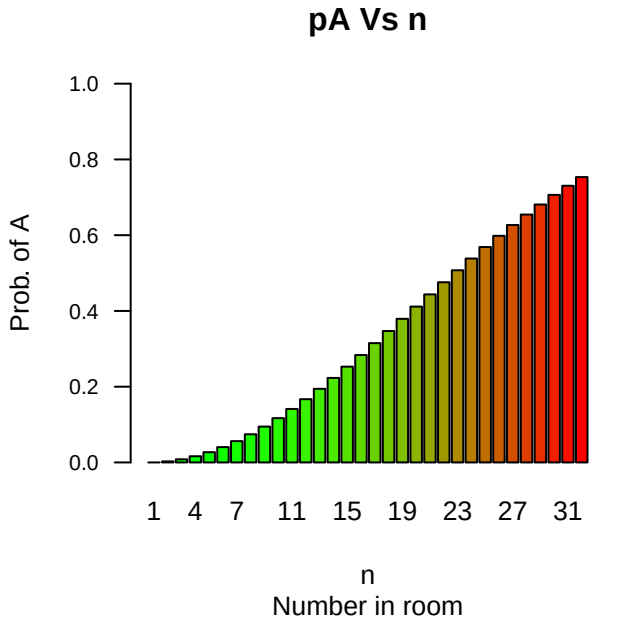

Probability function for Poisson
Probability
0.00
0.04
0.08
0.12
0
5
10
15
20
25
y

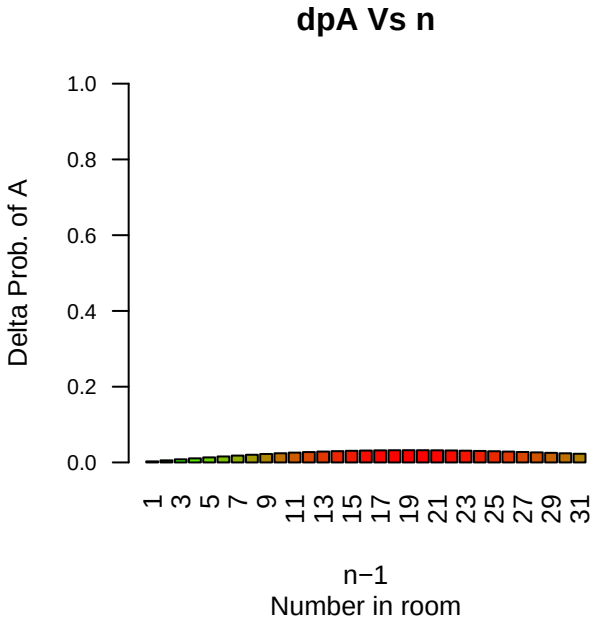

Histogram of sample mean
sample size= 20 iter=10000 lambda=10
Density
0.0
0.2
0.4
0.6
7
8
9
10
11
12
13
Sample mean

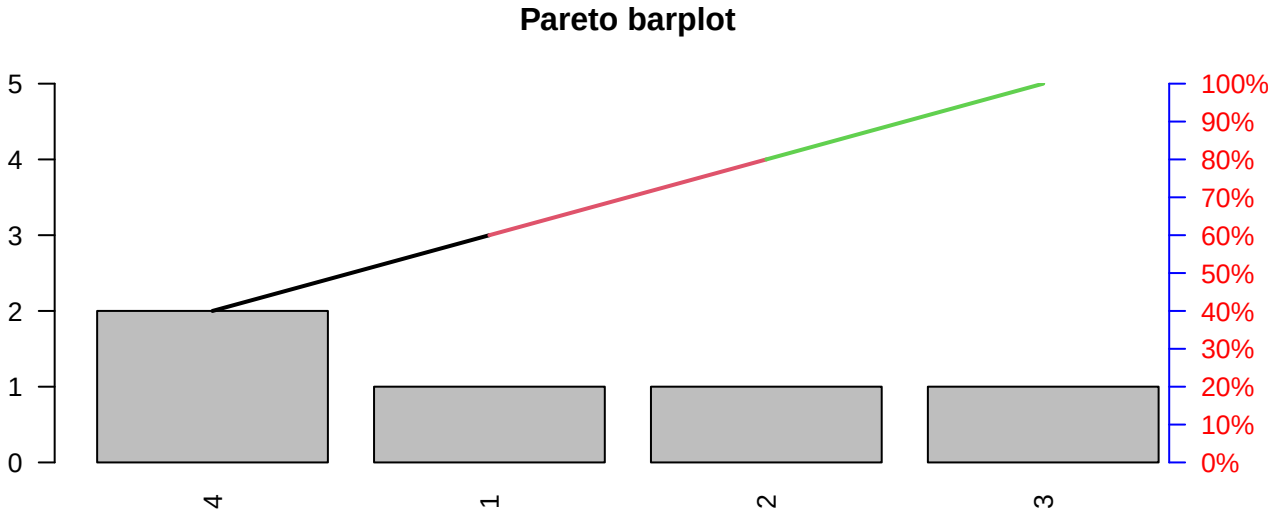

Barplot of sampled y
Rel. Freq
0.00
0.04
0.08
0.12
0 3 6 9 12 16 20 24
y


Probability function for Poisson
Probability
0.00
0.04
0.08
0.12
0 5 10 15 20 25
y


20
19
18
17
16
15
14
21
22
23
24
25
26
27
28
29
30
31
32


pA Vs n
Prob. of A
1.0
0.8
0.6
0.4
0.2
0.0
1
4
7
11
15
19
23
27
31
n
Number in room


dpA Vs n
Delta Prob. of A
1.0
0.8
0.6
0.4
0.2
0.0
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
n−1
Number in room


Pareto barplot
5
4
3
2
1
0
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
4
1
2
3