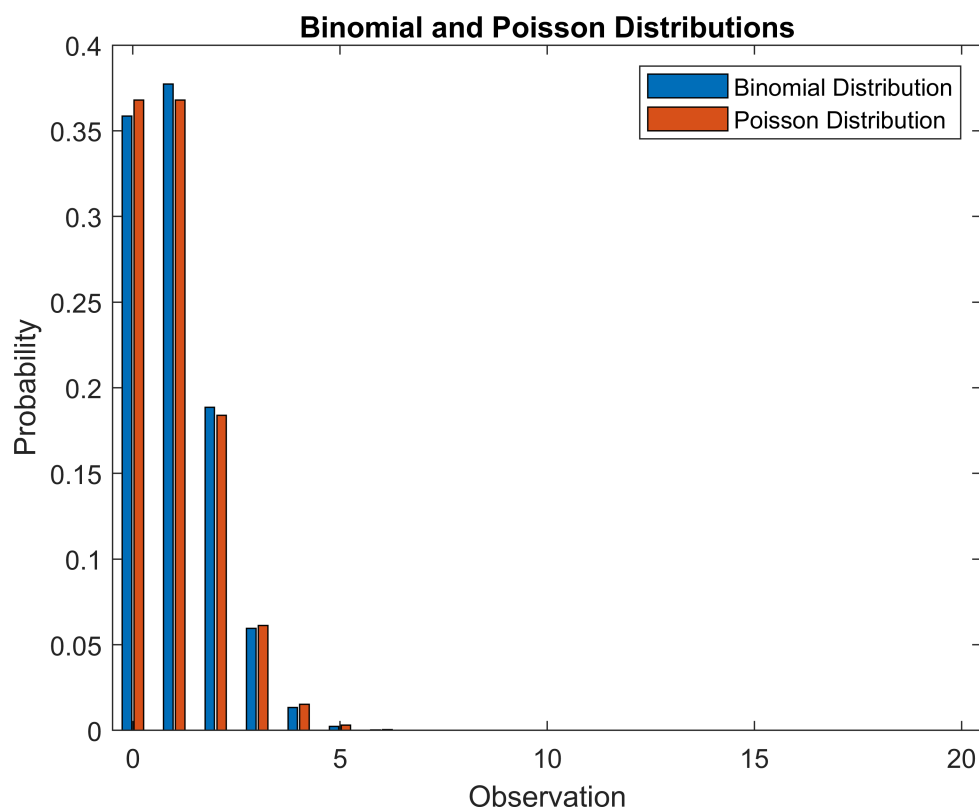```
n = 20;
p = 0.05;
x = 0:n;
y1 = binopdf(x, n, p);
mean = n*p;
y2 = poisspdf(x, mean);
```

```
figure
bar(x, [y1; y2]);
xlabel("Observation")
ylabel("Probability")
title("Binomial and Poisson Distributions")
legend('Binomial Distribution', 'Poisson Distribution')
```



```
n = 20;
p = 0.3;
x = 0:n;
y1 = binopdf(x, n, p);
mean = n*p;
y2 = poisspdf(x, mean);
```

```
figure
bar(x, [y1; y2]);
xlabel("Observation")
ylabel("Probability")
```

```
title("Binomial and Poisson Distributions")
legend('Binomial Distribution', 'Poisson Distribution')
```


Binomial and Poisson Distributions