

```
In[35]= Clear[X, Rep, Time, i, Chans]; For[i = 1; Rep = 100 000; Time = 0, i ≤ Rep, i++, X = 0;
  While[X == 0, Time = Time + 1; Chans = Random[UniformDistribution[{0, 1}]];
  If[Chans < N[1 / 6], X = 2, If[Chans < N[1 / 2], X = 1]];
  While[X == 1, Time = Time + 1; Chans = Random[UniformDistribution[{0, 1}]];
  If[Chans < N[1 / 3], X = 2]]; N[Time / Rep]
```

Out[35]= 4.00004