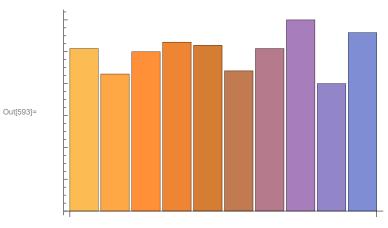
```
(* Simulate equipartition for the number e at levels 1 and 2 *)
In[556]:= (* Decimal expansion of e, small *)
       e = RealDigits[E, 10, 50]; (* number, base, length of digits *)
       smallE = e[[1]];
       f[n_{-}] := N \Big[ \sum_{k=4}^{Length[smallE]} If[\{smallE[[k]]\} == \{n\}, 1, 0] / (Length[smallE]) \Big]
       equipartition = {};
In[560]:= For[i = 0, i < 10, i++, AppendTo[equipartition, f[i]];];</pre>
       equipartition
Out[561]= \{0.06, 0.06, 0.16, 0.08, 0.1, 0.1, 0.08, 0.14, 0.1, 0.12\}
In[562]:= BarChart[{equipartition}]
Out[562]=
In[587]:= (* Decimal expansion of e, medium *)
       e = RealDigits[E, 10, 500];
       mediumE = e[[1]];
       f[n_{-}] := N \left[ \sum_{k=1}^{Length [mediumE]} If[\{mediumE[[k]]\} == \{n\}, 1, 0] / (Length[mediumE]) \right]
       equipartionMedium = {}
       For[i = 0, i < 10, i++, AppendTo[equipartionMedium, f[i]];];</pre>
       equipartionMedium
Out[590]= { }
Out[592] = \{0.102, 0.086, 0.1, 0.106, 0.104, 0.088, 0.102, 0.12, 0.08, 0.112\}
```

In[593]:= BarChart[{equipartionMedium}]



In[598]:= equipartitionLarge = {}
For[i = 0, i < 10, i++, AppendTo[equipartitionLarge, f[i]];];
equipartitionLarge</pre>

Out[598]= { }

out [60.0994, 0.0956, 0.0986, 0.1028, 0.094, 0.0956, 0.109, 0.105, 0.1016, 0.0984]

In[601]:= BarChart[{equipartitionLarge}]

