

```

In[25]:= f[x_] := a*x*(1-x)
g[x_] := a*(1-2 x)
x0 = 1.0/E;
ax = Flatten[Table[
  x = Nest[f, x0, 100];
  Table[{a, x = f[x]}, {100}]
, {a, 0, 4, 0.001}], 1] // Quiet;

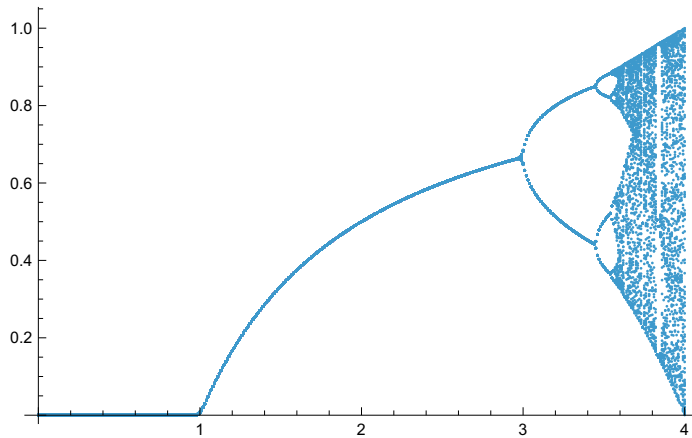
```

```

In[10]:= ListPlot[ax]

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Out[10]=



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In[29]:=

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n = 1000;
aL = Table[
  x = Nest[f, x0, 100];
  {a, 1/n*Sum[Log[Abs[g[x = f[x]]]], {n}]}
, {a, 0, 4, 0.001}] // Quiet;
ListPlot[aL]

```

Out[31]=

