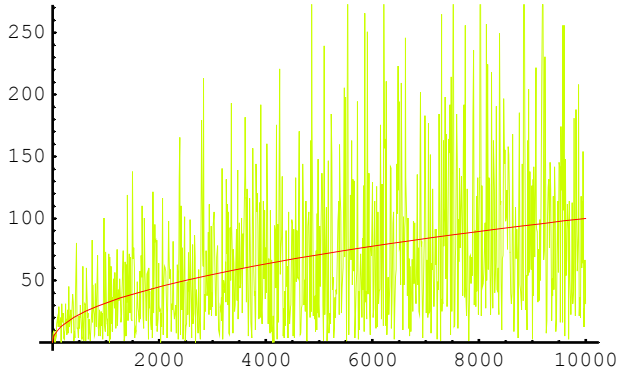
```
sRandom := 2 * (Random[Integer] - 1 / 2)
```

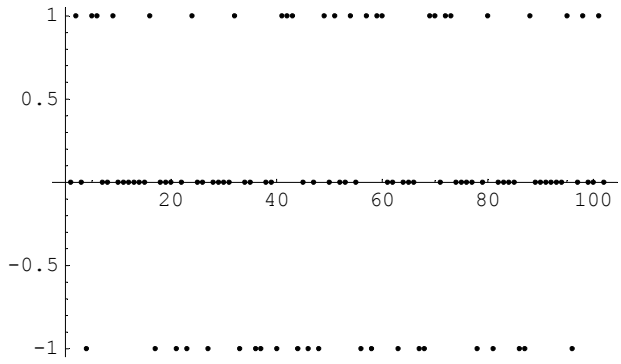
```
Plot[
 {Abs[Sqrt[Pi / 2] Sum[sRandom, {i, n}]],
  Sqrt[n]},
 {n, 0, 10000},
 PlotStyle → {{Hue[0.2]}, {Hue[1.0]}}]
```

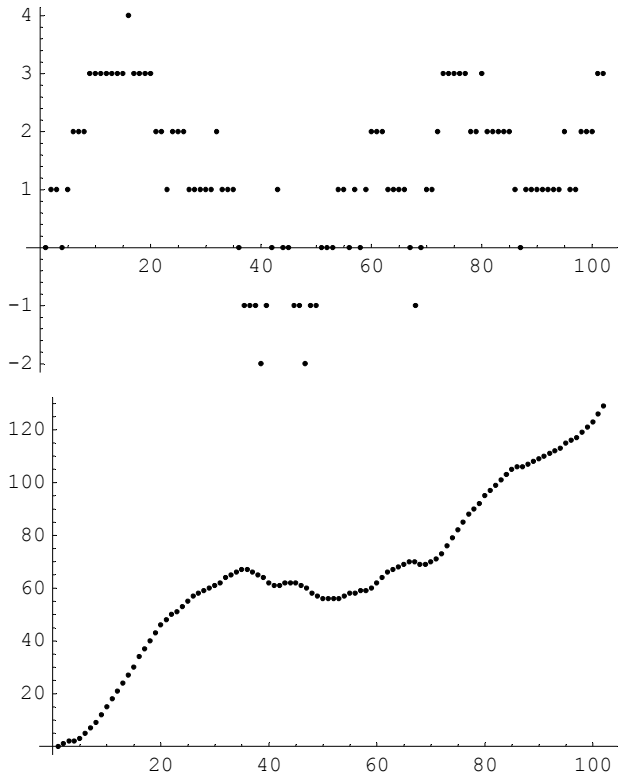


- Graphics -

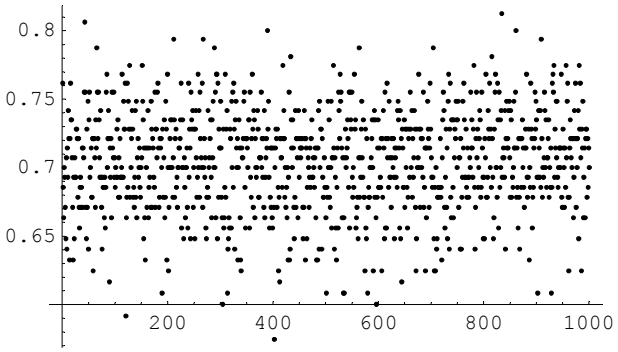
```
aRandom := If[(r = Random[]) < 0.5, 0, If[r < 0.75, -1, 1]]
```

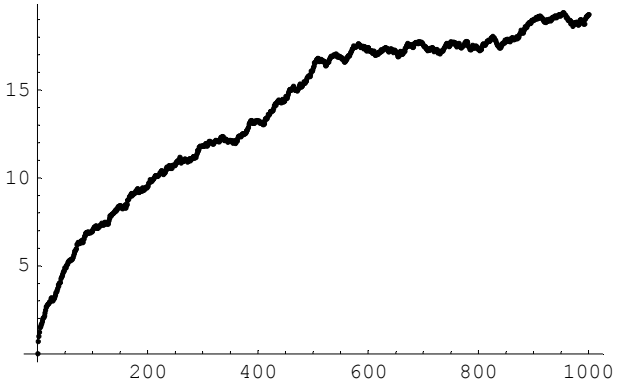
```
n = 0;
a = {0};
v = {0};
x = {0};
While[n ≤ 100,
  a = Append[a, aRandom];
  v = Append[v, Last[v] + Last[a]];
  x = Append[x, Last[x] + Last[v]];
  ++n];
ListPlot[a];
ListPlot[v]; ListPlot[x];
```

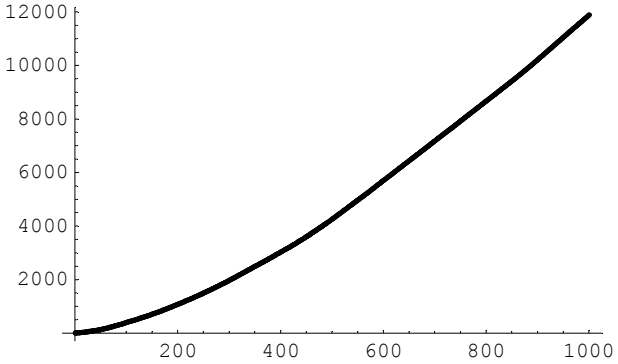





```
i = 1;
While[i <= 100,
 n = 1;
 a = {aRandom};
 v = {0};
 x = {0};
 While[n ≤ 1000,
  a = Append[a, aRandom];
  v = Append[v, Last[v] + Last[a]];
  x = Append[x, Last[x] + Last[v]];
  ++n]; (* end of While[n ...] *)
 If[i == 1,
  aa = a^2; vv = v^2; xx = x^2,
  aa += a^2; vv += v^2; xx += x^2];
 ++i]; (* end of While[i ...] *)
ListPlot[Sqrt[aa / (i - 1)]];
ListPlot[Sqrt[vv / (i - 1)]];
ListPlot[Sqrt[xx / (i - 1)]];
```


0.8
0.75
0.7
0.65
200
400
600
800
1000


15
10
5
200
400
600
800
1000


12000
10000
8000
6000
4000
2000
200
400
600
800
1000