

```

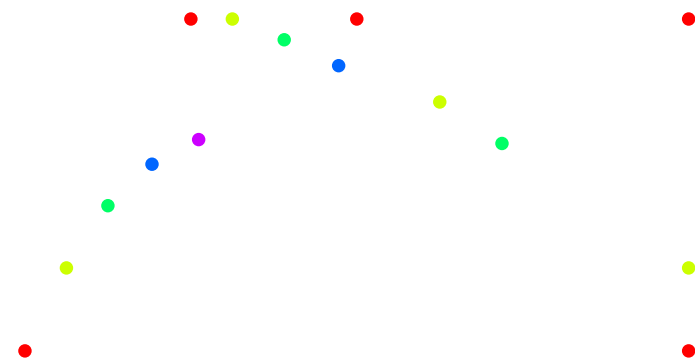
P[0, 0] = {0, 0};
P[0, 1] = {1, 2};
P[0, 2] = {2, 2};
P[0, 3] = {4, 0};
P[0, 4] = {4, 2};

n = 4;

a = 1 / 4;

For[r = 1, r ≤ n, r++,
  For[s = 0, s ≤ n - r, s++,
    P[r, s] = (1 - a) * P[r - 1, s] + a * P[r - 1, s + 1]]]
For[r = 0, r ≤ n, r++,
  For[s = 0, s ≤ n - r, s++,
    pP[r, s] = Graphics[{Hue[r / 5], PointSize[Large], Point[P[r, s]]}]]]
Show[pP[0, 0], pP[0, 1], pP[0, 2], pP[0, 3], pP[0, 4], pP[1, 0], pP[1, 1],
  pP[1, 2], pP[1, 3], pP[2, 0], pP[2, 1], pP[2, 2], pP[3, 0], pP[3, 1], pP[4, 0]]

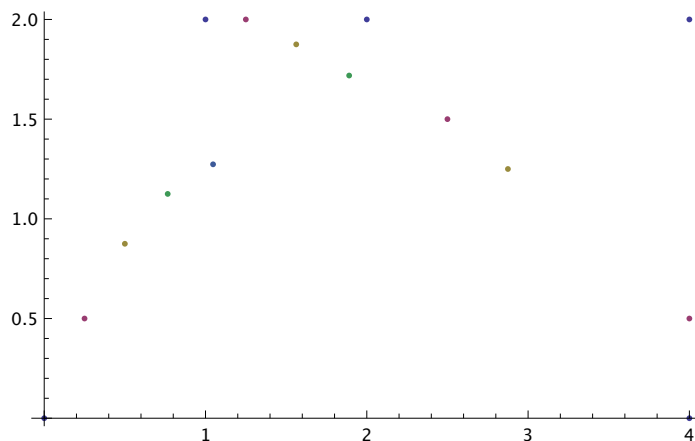
```



```

ListPlot[Table[P[r, s], {r, 0, n}, {s, 0, n - r}]]

```



```

For[r = 0, r ≤ n, r++,
  LP[r] = ListLinePlot[Table[P[r, s], {s, 0, n - r}], PlotStyle → Hue[r / 5]]]

```

```
Show[LP[0], LP[1], LP[2], LP[3], LP[4], pP[4, 0]]
```

