```
a = {{-1, 1}, {1, 100}}
```

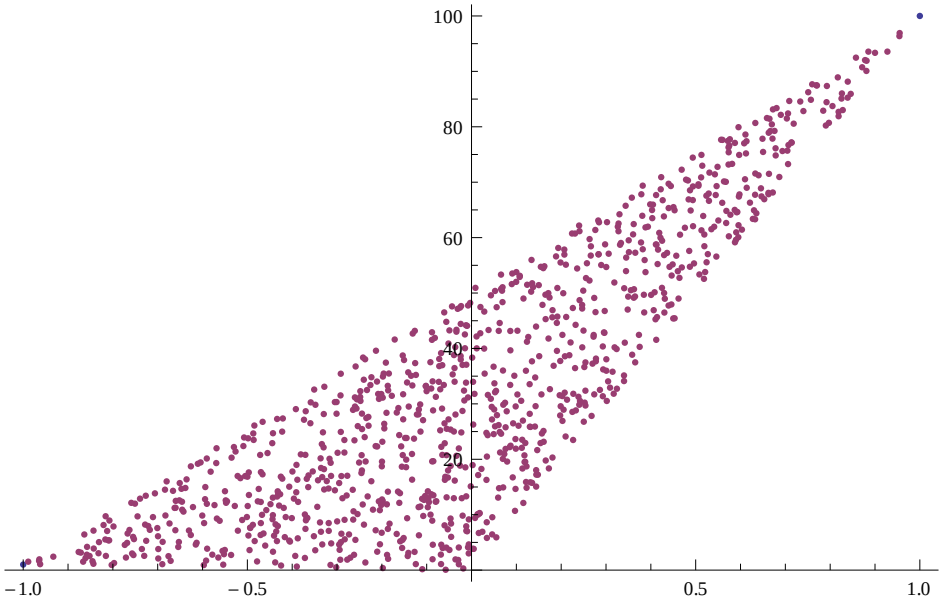
```
{{-1, 1}, {1, 100}}
```

```
F = {}; For[i = 1, i < 1000, i++,
 z1 = RandomReal[];
 z2 = RandomReal[];
 If[z2 > z1, t = z1; z1 = z2; z2 = t;]
  AppendTo[F, (a[[1]] z1 + (a[[2]] - a[[1]]) z2)];
]
```

```
Length[F]
```

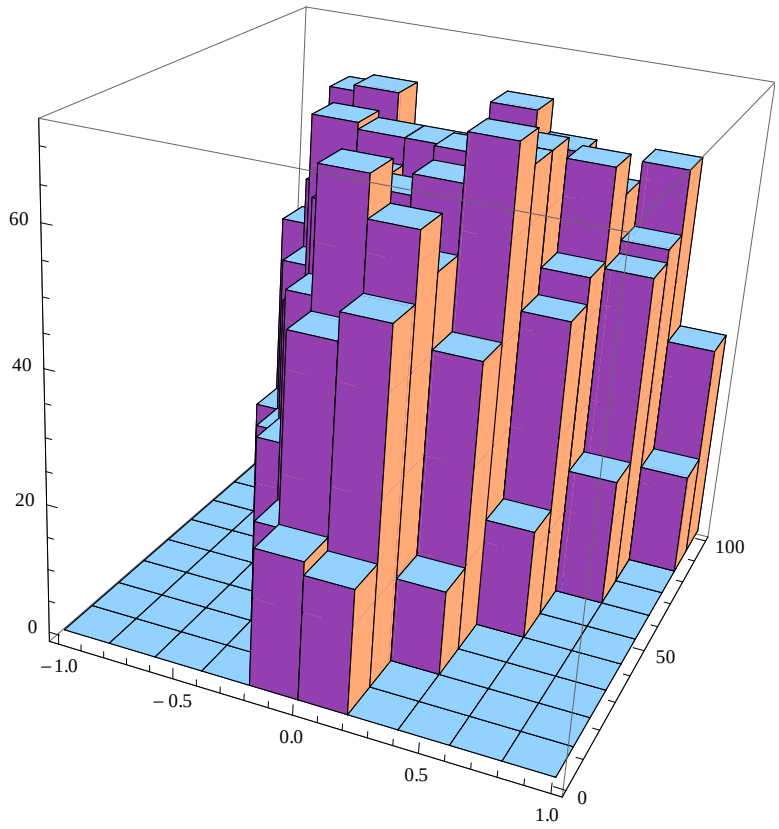
```
3834
```

```
ListPlot[{a, F}, AxesOrigin → {0, 0}]
```




```
<< Histograms`
```

```
Histogram3D[F, HistogramCategories → 100]
```




```
Plot[(x) * (a[[2, 2]]) / (a[[2, 1]]), {x, 0, a[[2, 1]]}]
```