```
Exit[]
str[x_] := Table[x[[i*n/1000]], \{i, 1, 1000\}]
\sigma = 0.2; r = 0.04;
n = 5000; dW = RandomReal[NormalDistribution[], {n}] / Sqrt[n];
W = Join[{0}, Accumulate[dW]];
S = Table[Exp[(r - \sigma^2/2) (t-1)/n + \sigma W[[t]]], \{t, 1, n+1\}];
q[x_] := -2 \text{ UnitStep}[x] + 1;
P = \{0\};
For [i = 1, i < n+1, i++,
 AppendTo [P, P[[i]] - (-2 UnitStep[P[[i]]] + 1) (S[[i+1]] - S[[i]])];
ListLinePlot[{str[P], str[S]-1}]
                                    600
-0.05
-0.10
-0.15
-0.20
-0.25
P = \{0\}; q[x_] := -2 UnitStep[x] + 1; n = 5000;
For [j = 1, j < 2, j++,
 dW = RandomReal[NormalDistribution[], {n}] / Sqrt[n];
 W = Join[{0}, Accumulate[dW]];
 S = Table[Exp[(r - \sigma^2/2) (t-1) / n + \sigma W[[t]]], \{t, 1, n+1\}];
 G = 0;
 For [i = 1, i < n + 1, i++,
 G = (-2 \text{ UnitStep}[G] + 1) (S[[i+1]] - S[[i]]);
 ]]
```