```
function Quicksort(S) =
  if (#S <= 1) then S
  else
    let a  = S[rand(#S)];
        S1 = {e in S | e < a};
        S2 = {e in S | e == a};
        S3 = {e in S | e > a};
        R  = {Quicksort(v); v in [S1,S3]};
    in R[0] ++ S2 ++ R[1];
```

Example using NESL.