

```
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.

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