

Example: Quicksort

[2,3,4,7,9]

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```
algorithm quicksort(A:List Int, lo:Int, hi:Int) {  
  p := partition(A, lo, hi)  
  quicksort(A, lo, p)  
  quicksort(A, p + 1, hi)  
}
```

```
algorithm partition(A:List Int, lo:Int, hi:Int) {  
  mid = (lo + hi) / 2  
  pivot := A[mid]  
  ...  
}
```