

```
quicksort([X|Xs],Ys) :-  
    partition(Xs,X,Left,Right),  
    quicksort(Left,Ls),  
    quicksort(Right,Rs),  
    append(Ls,[X|Rs],Ys).  
quicksort([],[]).  
  
partition([X|Xs],Y,[X|Ls],Rs) :-  
    X <= Y, partition(Xs,Y,Ls,Rs), !.  
partition([X|Xs],Y,Ls,[X|Rs]) :-  
    X > Y, partition(Xs,Y,Ls,Rs), !.  
partition([],Y,[],[]).  
  
append([],Ys,Ys).  
append([X|Xs],Ys,[X|Zs]) :- append(Xs,Ys,Zs).
```