

# quicksort.R

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```
# It is a recursive function that implements the quicksort algorithm.  
# It takes as input a vector  
# It returns the sorted vector.
```

```
@param vec A vector of numbers.' @return A sorted vector of @code{vec}.' @examples qs(c(1,2,5,4,6,10))'
```

```
qs <- function(vec)  
{  
  if(length(vec) > 1)  
  {  
    pivot <- vec[1]  
    low <- qs(vec[vec < pivot])  
    mid <- vec[vec == pivot]  
    high <- qs(vec[vec > pivot])  
    c(low, mid, high)  
  }  
  
  else vec  
}
```