Quick Sort in 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.

```r
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
}
```

Example

Take A vector

```r
vector = c(7,6,5,1,0,9,5,5)
qs(vector)
```

```
## [1] 0 1 5 5 5 6 7 9
```