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```
from numba import jit
 2
 3
   @jit(nopython=True)
 4
   def hoare_partition(array_, start, end):
 5
        pivot = array_[(start + end) // 2]
 6
 7
        i = start - 1
 8
        j = end + 1
 9
        while True:
10
            i += 1
11
12
            while array_[i] < pivot:</pre>
13
                i += 1
14
            j -= 1
15
16
            while array_[j] > pivot:
17
                 j -= 1
18
19
            if i >= j:
20
                return j
21
22
            temp = array_[i]
23
            array_[i] = array_[j]
24
            array_[j] = temp
25
   @jit(nopython=True)
26
27
    def quicksort_numba(array_, start, end):
        if start >= 0 and end >= 0 and start < end:</pre>
28
29
            crossing = hoare_partition(array_, start, end)
30
            quicksort_numba(array_, start, crossing)
31
            quicksort_numba(array_, crossing + 1, end)
32
```