```
FIND-SPLIT-POINT (A, p, r, x)
                                      // low end of search range
1 \quad low = p
2 \quad high = r + 1
                                      // high end of search range
3 while low < high
                                      // more than one element?
       mid = |(low + high)/2|
                                      // midpoint of range
       if x < A[mid]
                                      \# is answer q < mid?
           high = mid
                                      // narrow search to A[low:mid]
6
       else low = mid + 1
                                      // narrow search to A[mid + 1: high]
   return low
```