6.1
4. sort with $A$
2. return $\Gamma_n/2 + k$ elements of $A$

Time: $O(n \log n) + \Theta(2) = O(n \log n)$

6.3.3
a) single $L$ rotation

b) double $RL$ rotation

4.2
For $c = 1 \ldots \lfloor n/2 \rfloor$

If $H[c] \neq \max \{H[2i], H[2i+1]\}$
error

Time $O(n)$

// Note: if $2c+1 > n$, then check only $H[c] \geq H[c+1]$
6.6.2
1. \( H 
= H \times -1 \)
2. max-heap \((+1)\)
3. \( H \n= H \times -1 \)

6.6.5
1. \( B\) quich Hull \((x_0, y_0)\)
2. if \( P \) is through
   return true
   else return false

7.3.3
- Number of unique key values limited to the size of alphabet
- Many collisions
- Uneven distribution of words (words starting with \(g\) \( \neq \) word starting \(w\))

9.11
Coin denominations 7, 5, 1 for amount \(n \geq 0\) =
greedy approach works assign \(7 \times 1 + 5 \times 3\) when \(k = 5 \times 2\)

9.3.3
![Diagram with nodes a, c, and 3, 5, 7 connected by edges]
shortest path from \(a \to b\) is 2 by Dijkstra, but the shortest path is \(a \to c \to s\) w/ length 4