```
a: 3
   b: 4
   c: 5
   d: In practical, m gradually increasing, but k is a constant. We don't know how to choose
k. If k is small, when m becomes big and increase fast, a k-size bigger resize will be useless
and frequent. If k is big, when m is small and seldom increases, k-m memory will be wasted.
In theoretical, if we insert n elements, the total cost will be O(1+k+2k+\cdots+n)=O(n^2)
and the amortized cost will be O(n), which is bad.
   Problem 4-2. a: 1
   b: 2
   Problem 4-3. a: 6
   h: 5
   i: 4
   j: 1 Correct:3 Reason:extra bits is the question
   k: 2
   l: 3
   m: 4
   n: 4
   o: True, True, True, True, False Correct: False, False, True, True, True, False
   p: 3
   q: 2
   r: 3
   s: 6 Correct:8 Reason: the subtree has O(log(n)) height
   t: 8
   Problem 3-1.
   a: intersects
   b: 187590314
   c: True, False, False, True Correct:True, True, False, False, True
   d: 1
   e: 2
   f: 4
   g: 3
   h: 2
   i: 2
   j: list
```

Problem 4-1.

k: 20000