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CS 2134
HW#3

1) It first prints out 6, the middle number. Then 4 is erased from the vector and the elements after is shifted. Then it prints out 2. Then it prints out 5 which was shifted because 4 was erased. Then it prints out 9 which was also shifted because 4 was erased. Then it prints out 7 which is now the middle number because 4 was erased.
2) O(n)
3) a) itrStart = a.begin()
   itrEnd = a.end()
  itrMid = a.begin() + (a.begin + a.end()) / 2
  b) itrStart = a.begin()
   itrEnd = a.end()
  itrMid = a.begin() + (a.begin + a.end()) / 2

4) a) Will print 4
  b) Won't compile because list iterator is bidirectional so it doesn't support +(int) can only increment and decrement
  c) Will print 5
  d) Won't compile because the vector declared is a vector of int so the iterator should be a vector of int iterator however, the iterator provided is an iterator of char