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HW#4a

1) O(n)
2) O(nlogn)
3) [vector.begin(), vItr) are the iterators that are valid. [vItr, vector.end()) are the iterators that are invalid.
4) It prints out random shit because itr does not contain the address where the value c[0] is stored since push_back uses the reverse function which creates a new array with elements moved over and creates new addresses for them.
5) 112 because it adds 110 to the spare capacity which is 2
6)a) A.begin(), A.begin() + 6, D. begin()
   b) B.begin(), B.end()
   c) B.end()
   d) A.begin() , A.end(), *vecItr
   e) C.begin(), C.end(), *vecItr
   f) C.begin(), C.end()
   g) B.begin() + 4, A.end(), greater<int>()
   h) remove_if (A.begin(), A.end(), equal_to(5))