

Homework 4

Adam Sumner
ECE 449

November 5th, 2015

1.
 - (a) The vector `v` could be less than or greater than size 100 so there could be potential issues in the for loop
 - (b) The function does not return the address of the string
 - (c) We don't know what the `some_function(T *a)` function does so before the class goes out of scope, we would want to call `delete`. We can't assume that all memory leaks will be taken care of if we `delete` after the object has gone out of scope.
 - (d) `Delete` will deallocate all of the memory of the individual items of the vector, but not of the vector itself
 - (e) `Delete` should be called rather than the destructor
2.
 - (a) No error
 - (b) Error: the constant value was never initialized
 - (c) Error: the destructor is private
 - (d) Error: no default constructor for `B` defined when there is a specific constructor defined
 - (e) Error: the reference is not initialized
3. Implement constructor