

R5.9

A default constructor is a constructor that sets the values of variables to their default setting. Without a default constructor a variable could return a null value and that could cause your program to not work

R5.13

Data encapsulation hides certain values from the user so they cannot change their values. It is useful so the user cannot change certain parts of your program

R6.4

It going from the numbers 1-10 but the vector only has indexes for 0-9 so it will not work as intended. One way to fix it would be to make $i \leq 9$. Another way to fix it would be to make i start at 0 and make $i < 10$.

R6.5

An index is the amount of values stored in the array or vector. Illegal index values are values that are not defined in the array. A bound error is when the index is bigger than what is stored in the array.