**PRIMARY AND QUALIFIER – WHICH SPRING ANNOTATION SHOULD BE USE?**

For example:

@Component @Primary

class QuickSort implement SortingAlgorithm {}

@Component

class BubbleSort implement SortingAlgorithm {}

@Component @Qualifier("RadixSortQualifier")

class RadixSort implement SortingAlgorithm {}

@Component

class ComplexAlgorithm

@Autowired

private SortingAlgorithm algorithm;

@Component

class AnotherComplexAlgorithm

@Autowired @Qualifier("RadixSortQualifier")

private SortingAlgorithm iWantToUseRadixSortOnly;

1. @Primary vs @Qualifier - Which one to use?
2. @Primary - A bean should be given preference when multiple candidates are qualified. @Qualifier - A specific bean should be auto-wired (name of the bean can be used as qualifier)
3. ALWAYS think from the perspective of the class using the SortingAlgorithm:
   1. Just @Autowired: Give me (preferred) SortingAlgorithm.
   2. @Autowired + @Qualifier: I only want to use specific SortingAlgorithm – RadixSort.
   3. (REMEMBER) @Qualifier has higher priority than @Primary.