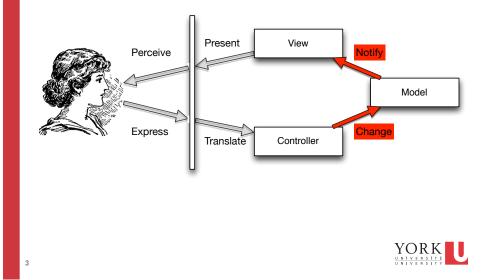


General Info

- Are your preparations underway for Term Test #2?
 - scheduled: Thu Mar 20
 - covers Chapter 9, Chapter 10, concepts from codebase



Schematic of MVC



Ch 10 Review Questions

#1 Why do we need the collection framework?

#2 What are the three main interfaces in the framework?

#3 Name the classes that implement each interface and state which is used when.



#4 Why do we specify the type when creating a collection? Why not leave it Object?

#5 Consider the types List<CreditCard> and List<RewardCard>. Is it true that one of them extends the other?

#6 A method takes as its parameter Set<? Extends CreditCard>. Can we pass to it the set Set<RewardCard>?



Ch 10 Review Questions

#7 How do you add an element to a list? What happens if the element is already present?

#8 How do you add an element to a set? What happens if the element is already present?

#9 How do you add an element at the end of a list? How about at the beginning?



#10 How do you add an element at the end of a set?

#11 What happens if you try to remove an elements from a set but the element is not in it?

#12 Given a reference to a map Map<K,V>, how do you determine whether a given key is in it?

#13 Why do we need an iterator?



Ch 10 Review Questions

#14 What methods does the iterator have?

#15 How do you force an iterator to reset its position back to the first element?

#16 How do you iterate over a map?

#17 Explain the enhanced for loop by giving an example.



#18 Given a reference to a map Map<K, V>, how do you determine its elements?

#19 What is the syntax for invoking the sort method?

#20 What is natural order?



Ch 10 Review Questions

#21 Is it possible to sort List<Equation>?

#22 Is it possible to sort List<InputStream>?

#23 Explain the loop invariant of a linear search.

#24 Give an example from everyday life in which we search faster than O(N) when the list being searched is sorted.



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#25 What is the syntax for invoking the binary search method?

#26 What is the complexity of binary search?



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