

Discussion Questions for “Collections”

1. The lecture talks about three major subsets of collections; sets, lists, and maps. If you read in detail, Java also include queues and deques (pronounced “deck” – a queue in which you can push a pop from both the head and the tail). Can you think of any other data structures that might be added to Java Collections?
2. Why did Java choose to put some method definitions in interfaces, and make others static methods in the Collections class? What is the difference between the two?
3. What would be the advantages and disadvantages of changing the built-in Java array so that it implemented the List interface? Are there any methods in the List interface which would not work correctly? Are there ways in which supporting the List interface would make Java better?