



## Section 6 - Collections and Generics Quiz

1.

Write code that creates an ArrayList, adds 100 random integers to it, then sorts it in descending order (highest number goes to lowest index, lowest number goes to highest index).

2.

Why are generic classes useful?

3.

Suppose we have a large database that contains data for billions of asteroids in space. We know each asteroid's mass and we have assigned each one an id. Data from our telescopes indicates that asteroid HKJ-2342-OIOKJ is going to hit Earth in 10 hours. We need to figure out the asteroid's mass from our database in the next minute. Suppose we can load all the asteroid data into either an ArrayList or Hashmap in 10 seconds. Which should we load the data into?

4.

Why are TreeSets useful?