6th April 2016 – Google Interview

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**Total duration**: 56:27

Question 1

CODE REVIEW

Imagine that your peer has asked you to review a code that she has recently written, to check if everything is fine, please give it a second of review and write your code review comments below.

/\*\* Updates user records. \*/

public class UserRecordUpdater {

String database\_address;

public UserRecordUpdater(String databaseAddress) {

database\_address = databaseAddress;

}

/\* Updates user record with new data provided by a user \*/

public void updateUser(String userId, String address, String email) {

Database database = new Database(database\_address);

User userX = database.getUserById(userId);

User userY = new User(userId, email, address);

if (userX == userY) {

// Skipping the update if nothing has really changed.

return;

}

updateUser2(userX);

}

public void updateUser2(User user) {

Database database = new Database(database\_address);

String sql = "UPDATE User set email = '" + user.email + "' address = '" +

user.address + "' where userId = '" + user.userId + "'";

database.executeSqlUpdate(sql);

}

}

/\*\* Represents a user from the database. \*/

class User {

String userId; String email; String address;

public User(String theUserId, String theAddress, String theEmail) {

theUserId = userId;

theEmail = email;

theAddress = address;

}

}

public class UserRecordUpdater {  
  private String database\_address;  
  
  public UserRecordUpdater(String databaseAddress) {  
    this.database\_address = databaseAddress; //Changed the code here, use this to assign...   
  }  
  
  /\* Updates user record with new data provided by a user \*/  
  public void updateUser(String userId, String address, String email) {  
    //Assuming Database class already present with methods implemented correctly  
    Database database = new Database(database\_address);  
    User userX = database.getUserById(userId);  
    User userY = new User(userId, email, address);  
    //Check if user already exists   
    if (userX.equals(userY)) { //should use equals while checking object equality  
      // Skipping the update if nothing has really changed.  
      // user with same userId already exists   
      // do not update  
      return;  
    }  
    updateUser2(userX);  
  }  
  
  
  public void updateUser2(User user) {  
    Database database = new Database(database\_address);  
    String sql = "UPDATE User set email = '" + user.email + "' address = '" +   
        user.address + "' where userId = '" + user.userId + "'";  
    database.executeSqlUpdate(sql);  
  }  
  
}  
  
/\*\* Represents a user from the database. \*/  
class User {  
  String userId; String email; String address;  
  public User(String theUserId, String theEmail, String theAddress) {  
     //again use this in all below assignments   
    this.userId = theUserId;   
    this.email = theEmail;  
    this.address = theAddress;  
  }  
    
    
  //Need to implement equals and hashCode method  
  public boolean equals(Object obj){  
      User ur = (User) obj;  
      //Check if 2 users have the same id  
      if(this.userId == ur.getuserId())  
          return true;  
      return false;  
  }  
    
  public int hashCode(){  
      return 10;  
  }  
    
}

**0:00 / 30:31**

**play1x2x5x**

Question 2

Q. Given k sorted arrays of size n each, merge them and print the sorted output.

Input:

k = 3, n = 4

arr[][] = { {1, 3, 5, 7},

{2, 4, 6, 8},

{0, 9, 10, 11}} ;

Output: 0 1 2 3 4 5 6 7 8 9 10 11

Don’t use Collection sort method

public class Sort {  
      
    public static void main(String[] a){  
          
        //get the inputs (3 sorted arrays) and form the array //Scannar class  
          
        int arrSize;  
          
        //Form 3 array  
        int [] a1 = new int[arrSize];  
          
        int [] a2 = new int[arrSize];  
          
        int [] a3 = new int[arrSize];  
          
        //Merge the sorted arrays?  
          
        int[][] arr = new int[][]{{1, 3, 5, 7}, {2, 4, 6, 8}, {0, 9, 10, 11}} ;  
          
        //sorting   
        int temp;  
        for(int i=0;i<arr.length-1 ;i++){  
            for(int j=1;j<arr.length-1;j++){  
                if(arr[i] < arr[j]){  
                    temp = arr[j];  
                    arr[j] = arr[i];  
                    arr[i] = temp;  
                }  
            }      
        }  
          
    }  
      
}

**25:52 / 25:52**

**pause1x2x5x**

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