GS Market Risk Interview questions on 23/06/2015  
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Q1).Find common elements from three sorted arrays

**public** **class** FindCommonElements {

**public** **static** **void** main(String[] args) {

**int**[] intArray1 = {1, 5, 10, 20, 40, 80};

**int**[] intArray2 = {6, 7, 20, 80, 100};

**int**[] intArray3 = {3, 4, 15, 20, 30, 70, 80, 120};

*findCommonElements*(intArray1, intArray2, intArray3);

}

**public** **static** **void** findCommonElements(**int**[] array1, **int**[] array2, **int**[] array3) {

**int** i=0,j=0,k=0;

**int** n1=array1.length,n2=array2.length,n3=array3.length;

**while**(i<n1 && j<n2 && k<n3) {

**if**(array1[i] == array2[j] && array2[j] == array3[k]) {

System.*out*.println(array1[i]);

i++;j++;k++;

}

**else** **if**(array1[i]<array2[j]) {

i++;

}

**else** **if**(array2[j]<array3[k]) {

j++;

}

**else**

k++;

}

}

}

**Output :** 20, 80

Q2).Find missing element in the growing array

**public** **class** FindMissingNumber {

**public** **static** **void** main(String[] args) {

**int**[] array = {5,15,20,25,30};

**int** missingNumber = *findMissingNumber*(array);

System.*out*.println(missingNumber);

}

**public** **static** **int** findMissingNumber(**int**[] intArray) {

**int** n = intArray.length;

**int** total;

total = intArray[0]\*(n+1)\*(n+2)/2;

**for**(**int** i=0;i<n;i++) {

total = total - intArray[i];

}

**return** total;

}

}

Output: 10

Q3) Reverse SinglyLinkedList