Ans 3. public class MissingNumberSumMethod {

static int findMissingNumber(int arr[], int n) {

int expectedSum = n \* (n + 1) / 2;

int actualSum = 0;

for (int num : arr) {

actualSum += num;

}

return expectedSum - actualSum;

}

public static void main(String[] args) {

int arr[] = {1, 2, 3, 5, 6};

int n = 6; // Since array should have numbers from 1 to 6

int missing = findMissingNumber(arr, n);

System.out.println("The missing number is: " + missing);

}

}