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| Find the smallest positive integer value that cannot be repsented as sum  of any subset of a given array sorted in ascending order  public class  SmallestIntegerInSortedArray {  public int find(int [] arrA){ |
| int smlNumber = 1; |
| for(int i = 0;i<arrA.length;i++){ |
| if(arrA[i]<=smlNumber){ |
| smlNumber += arrA[i]; |
| }else{ |
| break; |
| } |
| } |
| return smlNumber; |
| } |
| public static void main(String arg[]){ |
| SmallestIntegerInSortedArray i = new SmallestIntegerInSortedArray(); |
| System.out.println("Smallest Positive Integer that cant be represented by  the sum of any subset of following arrays are : "); |
| int [] arrA = { 1,1,3,4,6,7,9}; |
| System.out.println("{1,1,3,4,6,7,9} -" + i.find(arrA)); |
| int [] arrB = {1,1,1,1,1}; |
| System.out.println("{1,1,1,1,1} -" + i.find(arrB)); |
| int [] arrC = {2,3,6,7}; |
| System.out.println("{2,3,6,7} -" + i.find(arrC)); |
| int [] arrD = {1,2,6,7,9}; |
| System.out.println("{1,2,6,7,9} -"+ i.find(arrD)); |
| } |
| } |

