**Smallest subsequence with sum k**

Problem

Given an array a[] of size n. Your task is to find the smallest subsequence with sum of elements equal to k.

Example

Given an array of size 5,



K = 12

Subsequences which satisfy the given condition are

, , , 



Subsequences with minimum length

, , 

Therefore *answer = 3*.

Approach

1. Keep a MaxHeap and insert all the elements.



*MaxHeap*

1. Keep popping the element and keep adding them to a variable sum and maintain their count
2. When sum becomes greater than or equal to k, break the loop and output the cnt.

Time Complexity: O(nlog(n))