Smallest subsequence with sum k

Problem

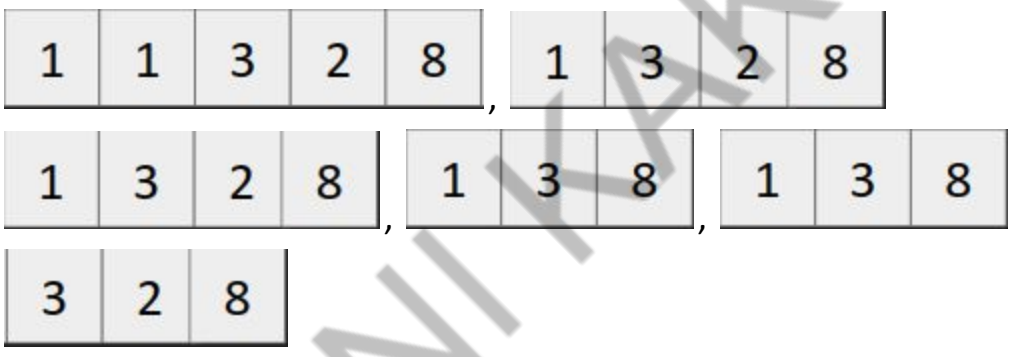
Given an array a[] of size n. Your task is to find the smallest subsequence with sum of elements equal to k.

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

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

Time Complexity: O(nlog(n))