PAINTER'S PARTITION

In this problem, we are given an array of integers where each integer represents writs of time to be painted along with K no. of painters

We are supposed to return what is the least amount of time it would take all the painters to finish i.e., we split among in K halves & find maximum sum which is least overall

Each painter must have something to do.

Solution for this is exactly similar to book allocation question hence the answer is same.

, return k

```
painters Partition (arr, N, S)
   \max_{x \in Swm} = 0

for(i = 0 \rightarrow N)
      if (arm (i) > max) d
          max = awr(i)
       Sum + = am (i)
   ans = -1
   while (max <= sum)
       mid = (max + sum)/2
       ret = paint Splitting (aur, N, mid, s)
       if (ret 4s) e
           sum = mid - 1
          ese e
           max = mid + 1
  return max
```