## 57. Find the kth smallest sum of matrix with sorted rows

## Code:

```
import heapq
def kthSmallestSum(matrix, k):
   def countSubarraysWithSumLessEqual(mid):
            heap = []
for end in range(cols):
                if start > 0:
                    current sum += matrix[start][end] - matrix[start-1][end]
                    current sum += matrix[start][end]
                heapq.heappush(heap, current sum)
                break count += len(heap)
                    heapq.heappop(heap)
        return count
    left = sum(matrix[i][0] for i in range(rows))
   while left < right:</pre>
        else:
    return left
print(kthSmallestSum(matrix, k))
```

## **Output:**



## **Time Complexity:**

• T(n)= O(klogk)