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Problem 5: Merge k sort arrays.import
heapq
def merge_k_sorted_arrays(arrays):
  result = []
  heap = []
  for i, arr in enumerate(arrays):
    if len(arr) > 0:
      heapq.heappush(heap, (arr[0], i, 0))
  while heap:
    val, arr_idx, idx = heapq.heappop(heap)
    result.append(val)
    if idx + 1 < len(arrays[arr_idx]):
      heapq.heappush(heap, (arrays[arr_idx][idx + 1], arr_idx, idx + 1))
  return result
arrays = [[1, 4, 7], [2, 5, 8], [3, 6, 9]]
merged_array = merge_k_sorted_arrays(arrays)
print(merged_array)
                         mid1
                                       input
```

Press ENTER to exit console.

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