```
high = [x for x in arr if x > pivot]
    pivot_count = len(arr) - len(low) - len(high)
    return low, pivot_count, high
def select(arr, k):
    if len(arr) <= 5:
        return sorted(arr)[k]
    medians = [sorted(arr[i:i+5])[len(arr[i:i+5]) // 2] for i in range(0, 1e
    pivot = select(medians, len(medians) // 2)
    low, pivot_count, high = partition(arr, pivot)
    if k < len(low):</pre>
        return select(low, k)
    elif k < len(low) + pivot_count:</pre>
        return pivot
    else:
        return select(high, k - len(low) - pivot_count)
def median_of_medians(arr, k):
    return select(arr, k - 1)
arr = [12, 3, 5, 7, 4, 19, 26]
k = 3
print(median_of_medians(arr, k))
```

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```
In [11]: def four_sum_count(A, B, C, D):
             sum\_AB = \{\}
             for a in A:
                  for b in B:
                      if a + b in sum AB:
                          sum_AB[a + b] += 1
                      else:
                          sum\_AB[a + b] = 1
             count = 0
             for c in C:
                 for d in D:
                      target = -(c + d)
                      if target in sum_AB:
                          count += sum_AB[target]
             return count
         A = [1, 2]
         B = [-2, -1]
         C = [-1, 2]
         D = [0, 2]
         print(four_sum_count(A, B, C, D))
```

2

In []: