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1 arr = [a1, a2, …, an]

2 max\_sum = 0

3 for i in range(len(arr)):

4 for j in range(len(arr)):

5 interval = arr[i:j+1]

6 current\_sum = sum(interval)

7 if current\_sum > max\_sum:

8 max\_sum = current\_sum

Basic operation: comparison (highlighted)

Time complexity: O(n^2)

Explanation: Fixing the first element of the list, we compare the sum of the intervals by going from one element to next each time until we reach the end of the list. Then we change the starting index by one and repeat the same process. This can be done by using nested for loops. Line 3 changes the starting index and line 4 changes the ending both by running through the list. Line 5 assigns the current interval. Line 6 assigns the sum of the current interval. Line 7 compares whether the sum of the current interval is bigger than the maximum sum or not, and if it is then assigns the current one to the maximum sum. Inner loop runs n times where n is the length of the given array. Outer loop runs n times as well, therefore time complexity is n.n=n^2 in terms of big o notation.