O(arrA*arrB)

Quadratic Complexity. The inner loop has O(arrB) iterations and is called arrA times. The inner loop is called a constant number of times (100,000) making the unsimplified Big O Notation O(100,000arrA*arrB). Remember we drop constants, so the final notation is simplified to O(arrA*arrB)

Which of the following are equivalent to O(N)?

1) O(N + M), where M < N/2

2) O(2N)

3) O(N + log N)

4) O(N + M)