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if array is not sorted, to be able to determine min and mox all element must be checked. Therefore, impliance min and max with first element of array A. Then sterate each element of array by checking if element that is currently iterated is less than min or greater than max. In less case, assign element that is currently sterated to min; in greater case, assign element that is currently steroted to max, Then colculate difference by subtacking min from max. Time complexity of this algorithm is o(n) because there is a loop which iterates all elements of array A whose some is n. Inside the loop, if statements and assignments have constant time complexity, Consequently, time complexity of this agorithm is O(n).