Name	Solutions	[Discrete I,	Quiz	22
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1) An algorithm has input and output as described below. How many comparison operations do you expect this algorithm to perform in the worst case?

Input: $c_1, c_2, c_3, \dots, c_n$ (All characters)

Output: The number of characters that are either 'a', 'b', or 'c'.

In the worst case we have to perform 3n comparison operations, because we have to compare all n numbers to each of 'a', 'b', and 'c'.