Programming Assignment 2

Due: Nov 15th 2020

You need to implement the algorithm for counting inversions. You need to read from the standard input (i.e, the terminal) and output to the standard output (i.e, the screen).

• Input format: The first line of the input contains one positive integers n, $1 \leq n \leq 106$. The next n lines contain the n integers A[1], A[2], · · · , A[n]; every integer is between 0 and 108.

• Output format: Just output 1 line, which is total number of inversions.

Example Input:	**Example Output:**	The pairs are (7, 3),(7, 5),(20, 16),(20, 5),(20, 8), (16, 5),(16, 8)
6 7 3 20 16 5 8	7	