Let a be a not decreasing list of non-negative floats, with n items, and your task is to find a count of all couples of items of a for which applies this condition $a[i] \cdot a[j] \geq a[i] + a[j]$ where $i, j \in 0 \ldots n - 1$

Create an algorithm solving this problem. There is one limitation, you need to solve it in complexity O(n) (or better) for both CPU and memory usage.

Example:
a = (0.5, 1.2, 2, 5, 8.5, 100)

Let's show how it works for $i = 3$ so number 5.

$a[j]$	$5 \cdot a[j]$	$5 + a[j]$
0.5	2.5	5.5
1.2	6	6.2
2	10	7
5	25	10
8.5	42.5	13.5
100	500	105

So the condition is valid in 4 cases. When we do the same with the rest of the numbers we find that the final result for this example is 20.