ECE 161 Foundations of Computer Engineering II Lab Programming Assignment

Write a standard C program that declares three one-dimensional arrays named price, quantity, and amount. Each array should be declared in main() and should be capable of holding ten double-precision numbers.

The numbers that should be stored in price are: 10.62, 14.89, 13.21, 16.55, 18.62, 9.47, 6.58, 18.32, 12.15, 3.98.

The numbers that should be stored in quantity are: 4, 8.5, 6, 7.35, 9, 15.3, 3, 5.4, 2.9, 4.8.

Your program should pass these three arrays to a function called <code>extend()</code>, which should calculate the amount array as the product of the corresponding elements in the <code>price</code> and <code>quantity</code> arrays.

After extend() has put values into the amount array, the values in the array should be displayed – properly formatted – from within main().