.NET [C#] task

This is a C# task. Please develop this as a console app.

Assume an array of integers representing the price of EUR against another currency during a given time period.

You need to know “what would be the best price to buy and the best price to sell so I could achieve maximum profit?”

**Example #1:**

[ 4, 2, 8, 6, 7, 12, 3, 25, 21, 30, 1 ]

The answer of the above would be to buy at the 2nd value (2) and sell at the 9th value (30) for a maximum profit of 28.

**Example #2:**

[ 45, 56, 5, 7, 3, 57, 23, 24, 12, 2, 40 ]

The answer of the above would be to buy at the 5th value (3) and sell at the 6th value (57) for a maximum profit of 54.

**Notes:**

Do not sort the array. Remember, the values are values that happened over a time period, so sorting them would make no sense.

Program input: array of integers

Program output: “buy at **buyPrice** and sell at **sellPrice** for a maximum profit of **maximumProfit**”

You should also write unit tests and tests various scenarios to check that your actual output is the expected output.