Lab10: SIMD with Intrinsics

Polynomial evaluation using SIMD instructions was discussed in class (see slides).
An example is provided here below:
$3x^2 + 2x – 3$

If x = 1,
the polynomial will evaluate to 3.1.1 + 2.1 – 3 = 3 + 2 – 3 = 2.
Coefficients are {3, 2, -3}.

“evalPoly.c” file contains function “evaluate” to solve a polynomial given an input x and coefficients of the polynomial. Lab work is to implement “evaluateSIMD” function that uses intrinsics to evaluate the polynomial.

Measure the run-time of the code and check if you get any speedup by using intrinsics compared to the code that does not use intrinsics.