COMP - Code Generation I

* This form will record your name, please fill your name.

1. Consider the statement:
   y=a*x*x+b*x+c;

2. Show the High-Level IR based on expression trees and considering that all the variables used in the statement are local variables:(1 Point)

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3. Show the Low-Level IR based on expression trees and considering the following register assignment for the variables used in the statement: a->$t1, x->$t3, b->$t2, c->$t4, y->$t5(1 Point)

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4. Using the Sethi-Ullman Algorithm for code generation of expression represented by trees show the steps of the algorithm and the code generated (considering the MIPS instructions add and mult)(1 Point)

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