**CS 6501 - Spring 2020 - Problem 1 Name:**

Assigned: January 16, 2020

Due: January 23, 2020

At the beginning of class on the due date, submit your neatly presented solution with this page stapled to the front (5 points).

Given the following C program, construct two intermediate representations for the program: an abstract syntax tree (AST) and a list of 3-address code statements.

main()

{

int sum, i, j;

1. sum = 0;

2. i = 1;

3. while (i <= 5) { 4. scanf("%d",&j);

5. if (j < 0)

1. break;
2. sum = sum + j;
3. if (sum > 10)
4. continue;

10. i = i + 1;

11. }

12. printf("sum is %d", sum);

}

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