

Write the assembly language code in the Simplified IAS, test it with the simulator. Make sure you test your assembly code and that ALL paths work correctly. You are to write the code as is and how it was explained in class. **You can't change the loop conditions or the step of loop control variable.** You MUST use comments in your code or lose 5 points per problem.

1. (10 points for each.)

```
main () {  
    int a=2, b=1, c;  
  
    if (a < b) {  
        c = a + 1;  
    } else {  
        c = a - b;  
    }  
}
```

2.

```
main () {  
    int x=1, i=3;  
  
    for (i=1; i<=6; ++i) {  
        x = x * i;  
    }  
}
```

3.

```
main () {  
    int a, b=2, c=0;  
  
    for (a=6; a>=1; --a) {  
        if (a % 2 == 0) {  
            c = c + b;  
        }  
    }  
}
```

Turning in the Assignment: (you must do both sections)

Hard copy:

1. title page:

Cosc 2150
Homework #1
Section #
Repo name
your Name

in large font on the page. At the bottom of the page, include a non-empty statement of help delivered and help received. It is OK to state that no help was given or received. It is **NOT** ok to omit the statement of help.

Soft copy:

1. Use this link to create your repo <https://classroom.github.com/a/xSPQ-DIr>
2. Assembly code for question 1 as the file name q1.asm
3. Assembly code for question 2 as the file name q2.asm
4. Assembly code for question 3 as the file name q3.asm
5. Edit the readme.md file, add the following:
 - Change X to be 1
 - Name
 - List anything that doesn't work (that you know of)
6. Remember, if the code is not on the github website, then you didn't turn it.