

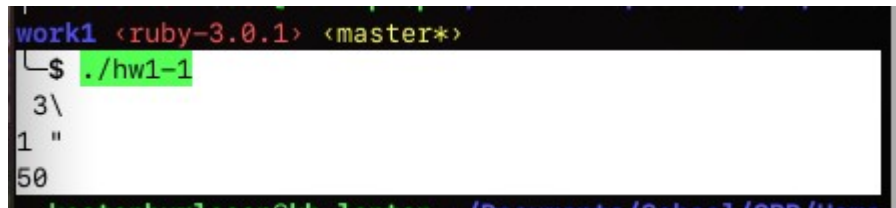
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September 1st, 2021

COMP-3150

Homework 1

1.



```
work1 <ruby-3.0.1> <master*>
$ ./hw1-1
3\
1 "
50
```

2.

```
/*
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    Homework 1

    Compiled with gcc v10.3.0 on x86_64 Linux
*/

#include <stdio.h>

int myprog(void)
{
    int a = 8;
    printf("%d", a); // missing semicolon

    unsigned int b = 3 - 7;
    printf("%u", b + 2);

    int myVar;
    printf("%d", myVar); // missing semicolon, wrong variable name

    int c = 9; // fixed: invalid redeclaration of 'a', renamed to 'c'
    c=-5;printf("%d",c);

    int d = 42;
    puts("d = ");
    puts(d); // warning, passing the int variable 'd' to puts creates a pointer without a cast
    printf("d = %d", d); // need to use 'printf' instead of 'puts' for formatting output
    d = d / 0; // warning, this is a division by zero. This is a compiler warning using gcc v10.3.0

    int sink = -1;
    float float1 = 1; // cannot define a variable without a variable name
    int e = 15 - e;
    const int f = 6;
    // f = 6; // cannot reassign readonly variable (const)
    // f = 7; // cannot reassign readonly variable (const)
    d = f;

    int g = myVar;
    g = 0; // cannot assign a variable this way/telling compiler to assign the value of 'g' to 0

    long long h = 10;
    h = h / 3;
    h =- 3;

    int x = 2, y = 3, product = x * y; // need to use '*' explicitly to get the product of two variables
    x = y = x = y;
}
```