

Exercise 2

SE 3800 001


Gorecki, Nicholas


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Clone Command: `git clone git@gitlab.com:msoe.edu/se/3800/goreckinj/ex2-goreckinj.git`

Configuring my account with an SSH key:

Your SSH keys (1)

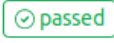
















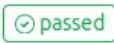










 **goreckinj@msoe.edu** c1:5f:74:c4:1e:72:6d:06:26:54:d0:0b:28:7c:8f:93
last used: n/a

created 1 minute ago 

I can push without having to enter my password:

```
osboxes@osboxes:~/ex2-goreckinj$ git push
Counting objects: 3, done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 297 bytes | 297.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0)
To gitlab.com:msoe.edu/se/3800/goreckinj/ex2-goreckinj.git
   aea26e3..f3e5002  master -> master
osboxes@osboxes:~/ex2-goreckinj$
```

PIPELINE:

 passed	#31952509 by  master  aea26e3b latest  reverting to ori... 	⌚ 00:03:19 📅 1 hour ago	
 failed	#31952391 by  master  acf827ae  committing fixe... 	⌚ 00:01:57 📅 1 hour ago	
 failed	#31952336 by  master  630ab145  committing faili... 	⌚ 00:01:34 📅 1 hour ago	
 passed	#31707977 by  master  3fd1683e  comitting! 	⌚ 00:01:44 📅 2 days ago	
 failed	#31707770 by  master  2e677498  committing! 	⌚ 00:00:35 📅 2 days ago	

Running Pipeline with all tests passing:

parent 2e677498 master

No related merge requests found

Pipeline #31707977 passed with stage in 1 minute and 44 seconds

Changes 10 Pipelines 1

Showing 10 changed files with 244 additions and 0 deletions

Hide whitespace changes

Inline

Side-by-side

BinarySearch.cpp 0 → 100644

View file @ 3fd1683e

```
1 +  
2 +  
3 +  
4 + #include "BinarySearch.h"  
5 + using namespace std;  
6 + #include <iostream>  
7 + #include <string>  
8 +  
9 + bool contains(double target, double numbers[], int size)  
10 + {  
11 +     if (size <= 0)  
12 +     {  
13 +         cout << "Invalid Array" << endl;
```

Running Pipeline with tests failing:

The following code boxed in yellow was changed from a 1 to a -1. This makes it so that if the number being searched for is greater than the currently compared number, it will shift left rather than right in the array:

```

int compare(double selected, double target)
{
    if (selected >= target - 0.000001 && selected <= target + 0.0
    {
        return 0;
    }
    else if (selected > target + 0.000001)
    {
        return -1;
    }
    else
    {
        return -1;
    }
}



```

Here's what happens when the new change is then committed:

1 job from master in 1 minute and 57 seconds

acf827ae

Pipeline Jobs 1 **Failed Jobs 1**

Name	Stage	Failure
 build	Build	

```

[ FAILED ] binarySearch.nonWholeNumbers
[ FAILED ] binarySearch.endArrayCheck
[ FAILED ] binarySearch.unfinishedSize

3 FAILED TESTS
Makefile:6: recipe for target 'test' failed
make: *** [test] Error 1
The command '/bin/sh -c cd /BinarySearch; make clean; make test' returned a non-zero code: 2
ERROR: Job failed: exit code 2

```

CPPCHECK:

Checks Passing:

```
osboxes@osboxes:~/ex2-goreckinj$ cppcheck --enable=all supress=missingInclude .
Checking BinarySearch.cpp ...
[BinarySearch.cpp:19]: (style) The scope of the variable 'selected' can be reduced.
[BinarySearch.cpp:20]: (style) The scope of the variable 'center' can be reduced.
.
1/3 files checked 33% done
Checking BinarySearchTest.cpp ...
2/3 files checked 66% done
Checking main.cpp ...
3/3 files checked 100% done
(information) Cppcheck cannot find all the include files (use --check-config for details)
```

Check Failing:

I commented out where the variable that is the center of the selected array portion is stored. This means that the center variable will never have an assigned value. This should throw an error, since it is used later on in the code.

The result:

```
osboxes@osboxes:~/ex2-goreckinj$ cppcheck --enable=all supress=missingInclude .
Checking BinarySearch.cpp ...
[BinarySearch.cpp:19]: (style) The scope of the variable 'selected' can be reduced.
[BinarySearch.cpp:47]: (error) Uninitialized variable: center
[BinarySearch.cpp:29]: (error) Uninitialized variable: center
[BinarySearch.cpp:42]: (error) Uninitialized variable: center
1/3 files checked 33% done
Checking BinarySearchTest.cpp ...
2/3 files checked 66% done
Checking main.cpp ...
3/3 files checked 100% done
(information) Cppcheck cannot find all the include files (use --check-config for details)
```

And it does. We have three errors in regard to the center variable and the center variable is used three more times in that method:

```
selected = numbers[center];
```

```
home = center + 1;
```

```
end = center - 1;
```

