

While you wait: find the bug in this code

```
int findMinimumValue(int[] ints) {  
    int min = 0;  
    for (int i : ints) {  
        if (i < min) {  
            min = i;  
        }  
    }  
    return min;  
}
```

Lab 1 details

Your Lab 1 submissions will be tested automatically. This means

- Use the specified file names **exactly**

- Use the specified method names **exactly**

- Use the specified method signatures **exactly**

- Follow the suggested output **exactly** (capitalization, punctuation, spacing)

- Don't include **any extras** (class headers, extra println statements, ...)

Your tutor should be able to do this in jshell:

```
/open /path/to/printPrimes.java
```

```
printPrimes (17);
```

```
/open /path/to/computeFibonacci.java
```

```
int i = computeFibonacci (10);
```

Avoiding excessive collaboration*

Every resource you use (except JP2 slides/sample code) **must be noted in comments**

Visits to StackOverflow, conversations with friends, conversations with a tutor or demonstrator, conversations on Teams ...

You may ask help from a peer and work together, but **you should not look at each others' code**, and the person being asked for help **should not outline their own solution**

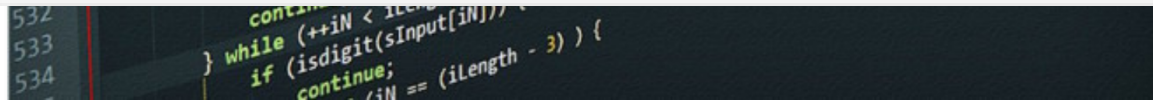
You should not include any code into your lab that you don't fully understand.

Labs are meant to be learning experiences, and **you must complete the lab exam by yourself at the end of the course!**

We will run **similarity checking software** on all of your submitted code
(... and then use our judgement to determine whether similarity is problematic)

** Adapted from <https://cseducators.stackexchange.com/a/4285>*

Online resources



Computer Programming To Be Officially Renamed “Googling Stackoverflow”

1.9k
SHARES



Facebook



Twitter

16



Google+

1.1k



LinkedIn

835

Reddit

0

Washington DC – The IEEE have produced a report today where they strongly recommend that from now on, the discipline of Computer Programming should be officially renamed to “Googling Stackoverflow”.

“We are recommending a root-and-branch name change to this discipline”, said President of the IEEE, Thomas M. Conte. “We are even going to change the official name of the IEEE Computer Society to the IEEE Quick Look At StackOverflow Society”.

“We are furthermore recommending that all universities across the planet should cease to award Bachelors degrees, Masters or PhDs in computer programming or software engineering and instead they should award these degrees in Googling Stackoverflow.”

Cutting corners to meet arbitrary management deadlines



Essential

Copying and Pasting from Stack Overflow

O'REILLY®

*The Practical Developer
@ThePracticalDev*

Example

Search for “java convert string to int”

First hit: <http://stackoverflow.com/questions/5585779/converting-string-to-int-in-java>

First response to question is:



```
int foo = Integer.parseInt("1234");
```

2556

See the [Java Documentation](#) for more information.



(If you have it in a `StringBuilder` (or the ancient `StringBuffer`), you'll need to do `Integer.parseInt(myBuilderOrBuffer.toString());` instead).



General rule for using online resources

Any Java techniques that you find online can in principle be used

Just make sure that ...

You **understand** what the code does – if you're using something we haven't covered yet in lectures, we won't help you get it working

It doesn't require **any additional libraries** beyond what's provided with a standard Java development environment

You are not **copying a full solution to the assignment** from the internet (plagiarism!)

*It is unlikely that online code **exactly** matches the assignment spec*

You are not **using a library that makes the entire assignment trivial** (e.g., a barcode or IBAN checker for Lab 2)

You **acknowledge your sources** (e.g., link for answer is <https://stackoverflow.com/a/5585800>)

Not recommended to ask questions on StackOverflow yourself – but your question has probably been answered if you search properly

Recap of today's content

Objects and classes

- Basics of object-oriented programming

- Abstraction and encapsulation

- Java class syntax

- Constructors

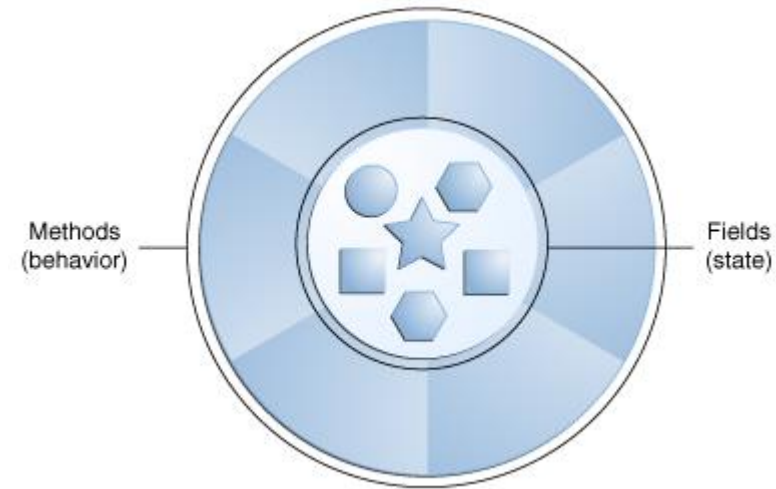
- Instantiation and method calling

Visibility modifiers

- Public/protected/private

- Getters and setters

- Static fields



Python dictionary example (again)

```
x = {'name': 'Joseph', 'age': 51}
y = {'name': 'Vic', 'age': 35}
print(x['age'])
```

```
y=x
x['age']=x['age']+1
print(x['age'])
```

```
print(y['age'])
```