

Week 2:

More Git, Interview
style questions,
Hacktober

Andrew & Gayan

[aps]

{abertay /*PROGRAMMING*/ society;}

Git merge

- Git merge incorporates changes from selected branches to master
 - Git merge "<branch>"
-

Git pull

- Git pull incorporates changes from the remote repository to local repository
- Git pull "<repository>"

Update README.md

Quick example:

- Update the readme.md file
 - Both locally and on github
- Use pull command locally
 - Some message about needing to merge
- Use Merge command
 - Merge your changes and resolve conflicts

Now some programming!



The classic:

FizzBuzz

5 mins

Input:

Random Number > 0

Output:

If the number divides by 3 & 5:

FizzBuzz

If the number / 5:

Buzz

If the number / 3:

Fizz

The classic:

FizzBuzz

(obvious
method)

```
try:
    val = int(key)
    if (val % 5 == 0) and (val % 3 == 0):
        fizzbuzz()
    elif (val % 5 == 0):
        fizz()
    elif (val % 3 == 0):
        buzz()
    else:
        print('Doesn\'t work')
except:
    print('Not a valid option')
```

The classic:

FizzBuzz

(a better
method)

```
val = int(input("Value for FizzBuzz: "))
if not val % 5:
    print("Fizz", end='')
if not val % 3:
    print("Buzz", end='')
print()

# Notes:
# Empty print is just new line
# end ='' means don't print newline at end
```

Efficiently:

Swap two ints

5-10 mins

Input:

An int: 'a'

An int: 'b'

Output:

Swap the values of 'a' and 'b'

Efficiently:
Swap two ints
The 'obvious'
method

```
void swap_int0(int & a, int &  
b){  
    int temp;  
    temp = a;  
    a = b;  
    b = temp;  
}
```

Efficiently:
Swap two ints
The 'quicksish'
method

```
void swap_int1(int & a, int & b){  
    a = a + b;  
    b = a - b; // 'b' is now 'a', as 'a' + 'b'  
- 'b'  
    a = a - b; // 'a' is now 'b', as 'a' + 'b'  
- 'a'  
}
```

Efficiently:
Swap two ints
The 'quick'
method

```
void swap_int2(int & a, int &  
b){  
    a = a ^ b;  
    b = a ^ b; // 'b' is now 'a'  
    a = a ^ b; // 'a' is now 'b'  
  
}
```

N or Number

5-10 mins

Input:

An int: n,

A list of ints: ln

Requirements:

If an item in the list 'ln' equals n,
replace it with n

Output:

ln

Is Prime

5-10 mins

Input:

An int, number.

Output:

‘True’ if number is a prime

‘False’ otherwise

Hacktoberfest

What you need to know



Who

Hacktoberfest is **open to everyone** in our global community!



How

Pull requests can be made in **any GitHub-hosted repositories/projects**.



When

You can sign up anytime between October 1 and October 31.

Rules

To get a shirt, you must make **five** pull requests (PRs) between October 1–31 in any timezone. PRs can be to any public repo on GitHub, not just the ones highlighted. The PR must contain commits you made yourself. PRs reported by maintainers as spam or that are automated will be marked as invalid and won't count towards the shirt. This year, the first 50,000 of you can earn a T-shirt (compared with 30,000 in 2017).

[Participation details](#) →

Values

Hacktoberfest guiding values:

- Everyone is welcome
- Quantity is fun, quality is key
- Short term actions, long term impact

[More on values](#) →





Andrew

Andrew is 5 pull requests away from earning a Hacktoberfest shirt!

This person hasn't submitted any pull requests yet.

Progress (0/5)



Share

Share

Global Stats

Challenge Completions To-Date

Updated on

Pull Requests Opened

Updated on

Participating Repositories

Updated on

Pull Requests Opened



Most Popular Days to Contribute:



Highest Pull Request Count Repos

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NEXT WEEK:

Ada Lovelace (& Shift Cipher) Workshop

Talks, workshops and meeting suggestions wanted!

Thanks for listening!

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See you next week