

QND Computer Science Day 8

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Recap

- Wordle
- Arrays
- Strings

Wordle Improvements

- Guess Count
- Random word
- Validate word length
- Validate word is a real word

Guess Count

- We've done this already!
- Use `break` to exit the loop

```
var guessCount = 0

while playing {
    if guessCount > 6 {
        print("You're out of guesses :(")
        break
    }
    // ...
    guessCount += 1
}
```

Random Word

- Create a list of words

```
var wordBank = ["apple", "maple", "trees", "stare"]  
let secret = wordBank.getRandomElement()! // Choose a random word
```

Validate Word Length

- Use `.count`
- Note that it does NOT have `()` at the end

```
let guess = readLine()!  
if guess.count != secret.count {  
    print("Not the same length!")  
    continue // Give the user a chance to guess again  
}
```

Validate Word is a Real Word

- Load strings from the `valid_words.txt` file
- Use `.contains()` to check if the word is present in the list
- `!` means NOT

```
let validWords = readStringsFromFile("valid_words.txt")
//...
if !validWords.contains(guess) {
    print("Guess \((guess) not a valid word :(".red())
    continue // Skip to the top of the while loop again
}
```

Get to it!

- Guess Count
- Random word
- Validate word length
- Validate word is a real word