+	public
-	private
	package
#	protected
	legend

+	TemplateUpdated
+	main(args:String [])
+	numChecker(userGuess: int, shouldBe: int): string

Nicholas Rahbany - Algorithm
Data Table

Main		
Variable	Type	Purpose
args	String[]	Parameter, unused
check	String	If magicNumber = guess
playAgain	String	If user wants to play again
in	Scanner	Scans console for user input
random	Random	Generates random number
range	int	Upper range of random number
magicNumber	int	Computer generated random number
guesses	int	How many times a user can guess magicNumber

numChecker		
Variable	Type	Purpose
userguess	int	The number the user guessed
shouldBe	int	magicNumber for different method
result	String	Used as return variable in numCheck

Algorithm for main(args)

```
main(args)
        in ← Scanner Object
        random ← Random Object
        guesses ←0
        check ← "not true"
        playAgain ← "no"
        guessAgain ←"no"
        do
            ask for maximum range for random number
            read range
            if range < 10
                        range = 10
            magicNumber ← random number in from 0 to range
            ask user for how many guesses
            guesses ←  read guesses
            do
                        ask user for guess
                        read guess
                        check ← numChecker guess and magicNumber
                        if check is not true
                                    print out check
                                    add one to guesses
                                    ask user to play again
                                    read guessAgain
                                    guessAgain to lower case
                        else
                                    print congratulations
                                    print number of guesses
            while check is not true or guessAgain is yes
            ask user to play again
            read playAgain
            playAgain to lower case
        while playAgain is yes

numChecker (int userGuess, int shouldBe)
        result ←no input
        if userGuess equals shouldBe
            result ← true
        else
            if userGuess is greater
                        result ←too high
            else
                        result ←too low
        return result
```