Macrosoft's Code of Coding Conduct

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# Contents

# Coding Conventions

## Curly Brackets

- Curly brackets starting a class, method, or loop must be on the line below the declaration
- Curly brackets ending a class, method, or loop must be on its own separate line, below the last line of code

Example:

```
public int doubleNumber(int number)
{ // ← this is the preferred style
        return 2*number;
} // ← Last curly bracket on its own line
```

- Any conditional or looping structure must have curly brackets, even if there is only a single line statement

Example:

```
if( numberOfCookies > 5)
{ //← curly brackets present even with a single line of code
        System.out.println("At least 5 cookies!");
}
```

## Whitespace

• There must be at least 1 line of whitespace above and below any while or for loop blocks.

Example:

```
int numberOfCookies = 5;
                                //← one line of whitespace
for(int i = 0; i < 5; i++)
{
        System.out.println("i");
}
                                //← one line of whitespace
int heroStillHungry = false;
```

• There must be at least 2 lines of whitespace above and below each method blocks of code.

Example:

```
public void method1()
{
        //Code goes here
}
                        //← At least two lines of whitespace
                        //← At least two lines of whitespace
public void method2()
{
        //More code goes here
}


public void method3()
{
        //Even more code goes here
}
```

## Naming Conventions
• Naming conventions for methods and variables will follow the java standard, unless otherwise stated.
• Variable names must be clear and if not commented, describe the variable's purpose or function.

## Comments
• There must be a comment above each method with a description of its uses or purpose, and noting any special cases or otherwise not obvious information

Example:

```
//Given a number, k, this method will return the k prime integer  //← purpose of function
//Only works for 5 <= k <= 252        //← special case
public void primeNumber(int k)
{
        //Code goes here
}
```

## General Coding Style
• No repeated blocks of code unless absolutely necessary, use methods instead.

## Updating Code Conventions

- Do not upload code that causes compile time errors unless absolutely necessary
- If you must upload code with compile time errors, note that there are errors in the git commit, and send out an email to the team to notify them of the errors, and that you are aware of it.
- If you notice bugs/errors that have not yet been discussed/documented, send out an email to the team to notify them of the bug/error and how to reproduce it (if possible) or where it occurs. Also add this bug/error to the SRS under Appendix C: Issues list.