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## Free Form Project Complexity

Our Free Form Project contains two parts.

List all variables and their scope.

- 1. Our custom API written in JavaScript that parses a JSON object returned from Google APIs
- 2. A mobile application for the iPhone that uses data from our custom API

We are currently working on the first step and its complexity is what is being assessed.

How many branch points are in your code?	26
How many due to method calls?	12
How many due to if statements?	12
How many due to Exception handling?	2
How many lines of code?	226
How many classes?	1 (no classes in JavaScript, but a constructor)
How many methods?	11

## Scope of Variables

Variable	Scope	Notes
window.onerror	Global	Error handling function
errorMsg	Function	Argument of window.onerror
lineNumber	Function	Argument of window.onerror
url	Function	Argument of window.onerror
err	Function ( window.onerror )	Exact name of the error that occured
Game	Global	Function that represents the game object (constructor)
addLevel	Global	Member function of Game
addSex	Global	Member function of Game
<anonymous closure=""></anonymous>	Function ( jQuery.ready )	Similar to main method in Java, called when DOM is loaded
today	Function ( <anonymous>)</anonymous>	Today's Date, acts as start

		date for AJAX request
future	Function ( <anonymous> )</anonymous>	Some day in the future, acts as end date for AJAX request
string	Function ( <anonymous> )</anonymous>	Full url for the GoogleAPI AJAX request
<anonymous object=""></anonymous>	Function ( jQuery.ajax )	Data for AJAX request
url	<anonymous object=""></anonymous>	The url to make a request to
success	<anonymous object=""></anonymous>	The callback function for the AJAX request
sportr	Global	An array of Regular Expressions that match sports
sportnames	Global	An array of Strings that correspond to the full name of a sport matched by the `sportr` regular expressions
games	Global	An array containing Game objects that have been parsed
mParse	Global	The main function that parses the data returned from GoogleAPI
fsr, vr, boyr, girlr, homer, awayr	Function ( mParse )	A set of Regular Expressions that will determine whether or not a game is Varsity, JV, Girls, Boys, Home, Away
events	Function ( mParse )	
i	for loop*	Loop iterator on the events array.
summary	for loop*	The summary of the current game, the game at the ith index of events
start	for loop*	The datetime of the start of this event

<pre><anonymous function=""></anonymous></pre>	forEach method call	Iterator function of the sportr
		array

<sup>\*</sup> JavaScript is not block scoped, but function scoped. This means that for loops do not create their own scope for their iterators. Instead, any loop iterators used are local to the function in which they are used.