Predicting Variable Evaluations Quiz

```
let func1 = () => {
  let hello;
  console.log(hello);
};

let func2 = () => {
  console.log(hello);
  let hello;
};

let func3 = () => {
  console.log(hello);
  var hello;
};
```

Which of the above functions will throw an error when invoked?

- func2
- All three will throw errors
- func3
- func1

EXPLANATION

The func1 function will run because a let declared variable with have a default value of undefined and will print that value. The func3 function uses var to declare a variable which will hoist the name of the hello variable to the top of the function's scope - allowing it be logged with the default value of undefined. That leaves func2 which will throw an error! This is because in func2 we declare a variable using let which means that variable's name will be hoisted to the top of the function's scope but will be unavailable until it has been assigned a value because it is in the temporal dead zone.

const	goodbye;		
consol	e.log(goodbye);	//	???

What is printed when the above code snippet is run?

undefined

- An Error is thrown.
- goodbye

EXPLANATION

When declaring a new const variable we need to assign that variable a value because of the nature of const being unable to be reassigned after the variable's declaration.

```
let goodbye;
console.log(goodbye); // ???
```

What is printed when the above code snippet is run?

- goodbye
- undefined
- An Error is thrown.

EXPLANATION

An declared but unassigned let variable will by default evaluate to undefined.

var	hello;		
cons	<pre>sole.log(hello);</pre>	//	???

What is printed when the above code snippet is run?

hello

undefined

An Error is thrown.

EXPLANATION

A declared but unassigned var variable will by default evaluate to undefined.