Name:		CM:	Sect:	Grade:	of 10
Pointe	uiz is due after you have finish rsAsParameters, PointersPraete the quiz as you watch.	_	-		el free to
Video:	PointerSyntax				
1.	(1) What is a pointer in C?				
2.	(1/2) The special character &, when placed before the name of a variable (e.g., $#$), is used				
	to get the	of the variable.			
Us	e the following code snippet to	answer questions 3 and	4.		
		<pre>double grade = 5.0 double* pGrade; double x;</pre>);		
3.	(1) Write a C statement that assigns the address of grade to the variable pGrade.				
4.	(1) Write a C statement that dereferences pGrade and assigns the value to the variable x , that is, write a statement that assigns the value pointed to by pGrade to x .				
Video:	PointersInDebugger				
Checko	out the PointersIntro proje	ct in Eclipse.			
5.	. (1/2) Uncomment the call to simplePointers(), and run the program.				
	At what location doe	es the program say num i	s stored?		
	What value of pNum i	is printed?			
6.	(1/2) Now run the same code pNum = #?	e in the debugger. What	was the value	of pNum before t	he line
7.	(1) Look at the code example that uses change and pChange. It uses another method of modifying change rather than just saying change = 0.62. Explain what we did.				

Video: PointersAsParameters

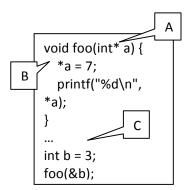
Introduction to C Programming

Follow along in the video to fix the broken <code>downAndUp()</code> function in the <code>PointersIntro</code> project.

8. (1) Briefly explain why the function originally didn't work as expected, but did after you fixed it.

Pointers

- (1) For each of the following tasks, indicate the label in the code snippet that accomplishes the task:
 - ___ Dereference a pointer to change another variables value
 - Declare a parameter to be a pointer
 - Pass the address of a local variable to another function



Video: PointersPracticeAndPitfalls

9. (1) Draw the box-and-pointer diagram associated with the following code snippet. Be sure to show intermediate values of variables.

```
int x = 3, y = 5;
int* px = &x;
int* py = &y;
*px = 10;
px = py;
*px = 12;
```

Video: MoreBoxAndPointers

10. (1/2 ea) Each of the following implementations of swap is wrong. For each, draw a boxand-pointer diagram showing what it does.

```
void swap1(int x, int y) {
     x = y;
     y = x;
 swap1(8, 12)
void swap2(int x, int y) {
     int temp;
     temp = y;
     y = x;
     x = temp;
 swap2(8, 12)
void swap3(int* x, int* y) {
     int* temp;
     temp = y;
     y = x;
     x = temp;
 swap3(8, 12)
```

11. (1 point) After watching this set of videos, what questions, if any, do you have? If none, please write "None".