

CPS 171 Answers to Exam Review Questions for Test 2 that are not in the book

Chapter 5

3. MadamNowI'mAdam
5. a. Eligible to serve.
 b. Too short and too light to serve.

11. To fix the dangling else problem, insert braces as follows:

```
if (typeA || typeB)
{
    if (typeA && typeB)
        cout << "Type AB";
}
else
```

Switch

3. True
5.
- ```
switch (n)
{
 case 3 : alpha++;
 break;
 case 7 : beta++;
 break;
 case 10: gamma++;
 break; // Optional
}
```

### Loops

10. Nothing is printed. While and For are pretest loops. Here, the loop condition is immediately false and the body is skipped.

- 7.
- ```
sum = 0;
for (count = 1; count <= 1000; count++)
    sum = sum + count;
```
- 8.
- ```
m = 93;
while (m >= 5)
{
 cout << m << ' ' << m * m << endl;
 m--;
}
```
- 9.
- ```
k = 9;
do
{
    cout << k << ' ' << 3 * k << endl;
    k++;
} while (k <= 21);
```

Nested Loops

5. True
8. True
12. True
11. 4 3 2 1 4
 3 2 1 3
 2 1 2
 1 1

12.

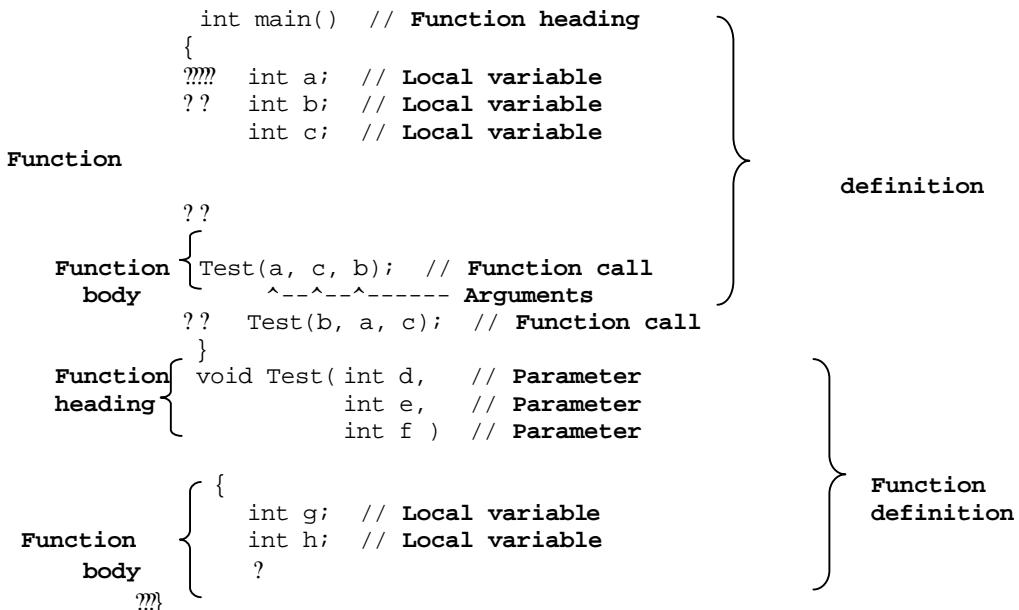
```
*****  
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```

Chapter 7

1.	Function call	The mechanism that transfers control to the body of a function
	Parameter list	A mechanism by which functions communicate with each other; the list of variables and/or expressions following the name of a function that determines how the function and the calling code communicate with each other
	Parameterless function	A function that has no parameters; a function whose parameter list is empty
	Parameter	A variable declared in a function heading
	Argument	A variable or expression listed in a call to a function
	Local variable	A variable declared within a block and not accessible outside of that block

2.

```
void Test( int, int, int ); // Function prototype
```



3.

First Call to Test		Second Call to Test	
Formal	Actual	Formal	Actual
1. d	a	1. d	b
2. e	c	2. e	a
3. f	b	3. f	c

5. True

6. True

13.

```
1     cout << "Exercise ";
2     DoThis(number1, number2);
3     cout << number1 << ' ' << number2 << endl;
4
5     cin >> value3 >> value1;
      value2 = value1 + 10;
```

14. In the main function just before execution of the return statement, number1 contains 15, number2 contains 25, and value3 does not exist (it is local to the DoThis function).