C H 13 Q U I Z Study

## **CH13QUIZ**

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### 103 solutions

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## Terms in this set (51)

```
[1301] Which line below points ppi to pi?
                                                                                              ppi = π
                      int main()
                      double pi = 3.14159;
                      double *ppi;
                      // code goes here
                      // code goes here
[1302] Assume that ppi correctly points to pi. Which line prints the value stored
                                                                                              cout << &pi;
inside pi?
                                                                                              cout << ppi;
                                                                                              cout << &ppi;
int main()
                                                                                              cout << *pi;
double pi = 3.14159;
                                                                                              \rightarrow None of these
double *ppi;
// code goes here
// code goes here
```

```
[1303] Assume that ppi correctly points to pi. Which line prints the value stored
                                                                                              cout << *ppi;
inside pi?
int main()
double pi = 3.14159;
double *ppi;
// code goes here
// code goes here
[1304] Assume that ppi correctly points to pi. Which line prints the address of ppi?
                                                                                              cout << &ppi;
 int main()
 double pi = 3.14159;
 double *ppi;
 // code goes here
 // code goes here
[1305] Assume that ppi correctly points to pi. Which line prints the size (in bytes) of
                                                                                              cout << sizeof(*ppi);
int main()
double pi = 3.14159;
double *ppi;
// code goes here
// code goes here
                    [1306] The value for the variable a is stored:
                                                                                              in the static storage area
                    int a = 1;
                    void f(int b)
                    {
                    int c = 3;
                    static int d = 4;
                    }
```

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int a = 1;  void f(int b) {  int c = 3;  static int d = 4; }	
<pre>[1308] The value for the variable c is stored:  int a = 1;  void f(int b) {   int c = 3;   static int d = 4; }</pre>	on the stack
[1309] The value for the variable d is stored:  int a = 1;  void f(int b) {  int c = 3;  static int d = 4; }	in the static storage area
[1310] The variable buf is a pointer to a region of memory storing contiguous int values. (This is similar to your homework, where you had a region of memory storing unsigned char values) The four lines shown here are legal. Which operation is illegal?  int *pl = buf; const int *p2 = buf; int * const p3 = buf; const int * p4 const = buf;  *pl = 3; *p3 = 5; pl++;	*p2 = 7;
*p2 = 7  [1311] The variable buf is a pointer to a region of memory storing contiguous int values. (This is similar to your homework, where you had a region of memory storing unsigned char values.) The four lines shown here are legal. Which operation is illegal?  int *p1 = buf; const int *p2 = buf; int * const p3 = buf; const int * p4 const = buf;	p3++;
[1312] The variable buf is a pointer to a region of memory storing contiguous int values. (This is similar to your homework, where you had a region of memory storing unsigned char values.) The four lines shown here are legal. Which operation is legal?  int *pl = buf; const int *p2 = buf; int * const p3 = buf; const int * p4 const = buf;	*p3 = 5;

[1313] These pointer should point to "nothing". Which is not correctly initialized?	vector <int> *vp;</int>
[1314] These pointer should point to "nothing". Which is not correctly initialized?	All are correctly initialized to point to nothing
Star *ps = NULL;	
vector <int> *vp(0);</int>	
int *pi = nullptr;	
double *pd{};	
All are correctly initialized to point to nothing	
[1315] Which of these is the preferred way to initialize a pointer so that it points to "nothing"?	int *pi = nullptr;
[1317] All of these are legal C++ statements; which of them uses the C++ address operator?	int *p = &a

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int a = 3, b = 4;	
[1319] All of these are legal C++ statements; which of them uses the C++ pointer declarator?	int *p = &b
int a = 3, b = 4;	
[1320] All of these are legal C++ statements; which of them uses the C++ dereferencing operator?	int x = *p;
int a = 3, b = 4;	
[1321] All of these are legal C++ statements; which of them uses indirection?	int x = *p;
int a = 3, b = 4;	
[1322] In C++, global variables are stored:	in the static storage area
[1323] What is true about an uninitialized pointer?	Dereferencing it is undefined behavior

[1324] What is true about this code?	*p is the value of n
int n{500};	
int *p = &n	
πι ρ - απ,	<u> </u>
[1325] What is true about this code?	choice contains an undefined address
[]	
int * choice;	
[1326] How can we print the address where n is located in memory?	cout << &n << endl;
int n{500};	
17771 Which are a sharing the color that a single table	l
[1327] Which expression obtains the value that p points to?	*p
int x(100);	
int *p = &x	
·	·
[1328] What is a common pointer error?	Using a pointer without first initializing it
	·
[1329] What is printed when you run this code?	The memory location where x is stored
int x(100);	
cout << &x << endl;	
[1330] What is printed when you run this code?	20
int n{};	
int *p = &n	
*p = 10;	
n = 20;	
cout << *p << endl;	
[1331] What is printed when you run this code?	10 10
int num = 0;	
int *ptr = #	
num = 5;	
*ptr += 5;	
*ptr += 5; cout << num << " " << *ptr << endl;	The address value 0
*ptr += 5;	The address value 0
*ptr += 5; cout << num << " " << *ptr << endl;  [1332] What is printed when you run this code?	The address value 0
*ptr += 5; cout << num << " " << *ptr << endl;	The address value 0
*ptr += 5; cout << num << " " << *ptr << endl;  [1332] What is printed when you run this code?  int *n{nullptr};	The address value 0
*ptr += 5; cout << num << " " << *ptr << endl;  [1332] What is printed when you run this code?  int *n{nullptr};	The address value 0  No compilation errors, but undefined behavior
*ptr += 5; cout << num << " " << *ptr << endl;  [1332] What is printed when you run this code?  int *n{nullptr}; cout << n << endl;	
*ptr += 5; cout << num << " " << *ptr << endl;  [1332] What is printed when you run this code?  int *n{nullptr}; cout << n << endl;	

[1334] What is printed when you run this code?	The address value where n is stored

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C11 13 Q C1 Z	
int *p = &0;	
cout << *p << endl;	
[1336] What is printed when you run this code?	Will not compile
int n{};	
int *p;	
*p = &n	
cout << *p << endl;	
[1337] What is printed when you run this code?	No compilation errors, but undefined behavior when run
int n{};	
int *p;	
*p = n;	
cout << *p << endl;	
[1338] What is the term used to describe a variable with stores a memory address?	pointer
[1339] Which of these is not one of the three characteristics of every variable?	alias
[1340] Which area of memory is your program code stored in?	Text
[1341] Which area of memory are local variables stored in?	Stack
[1342] Which area of memory are global variables stored in?	Static storage area
[1343] Examine the following code. What is stored in c after it runs.	1
int f(int * p, int x)	
{	
* <b>p = x</b> * 2;	
return x / 2;	
}	
int a = 3, b, c;	
c = f(&b, a);	

```
[1344] Examine the following code. What is stored in b after it runs.
         int f(int * p, int x)
         *p = x * 2;
        return x / 2;
        int a = 3, b, c;
        c = f(&b, a);
         [1345] Examine the following code. What is stored in a after it runs.
                                                                                               3
         int f(int * p, int x)
         *p = x * 2;
         return x / 2;
         }
         int a = 3, b, c;
         c = f(&b, a);
[1346] Examine this version of the swap() function, which is different than the two
                                                                                                swap(a, &b);
versions appearing in your text. How do you call it?
void swap(int& x, int * y)
}
int a = 3, b = 7;
// What goes here ?
[1347] Examine this version of the swap() function, which is different than the two
                                                                                                swap(&a, b);
versions appearing in your text. How do you call it?
void swap(int * x, int & y)
}
int a = 3, b = 7;
// What ages here 2
```

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integers?	
[1349] Assume that pl is a pointer to an integer and p2 is a pointer to a second integer. Both integers appear inside a large contiguous sequence in memory, with p2 storing a larger address. How many total integers are there in the slice between pl and p2?	p2 - pl;
[1350] Here is the pseudocode for the greenScreen() function in H12. What single statement sets the red, green and blue components to 0?	*( <b>p</b> ) = *( <b>p</b> + 1) = *( <b>p</b> + 2) = 0;
Let p point the beginning of the image Set end to point just past the end	
While p != end  If *(p + 3) is 0 (transparent)	
Clear all of the fields	
Increment p by 4	
[1351] Here is a fragment of pseudocode for the negative() function in H12. What statement represents the underlined portion of code?	p++;
Let p point to beginning of the image	
Let end be pixel one past the end of the image  While p != end	
Invert the red component	
Move p to next component	<u> </u>
Used to access the data inside a variable -> variable name	variable name
	variable type
Determines the amount of memory required and the operations permitted on a variable	variable value
-> variable type	pointer
The meaning assigned to a set of bits stored at a memory location  -> variable value	p = &a
An object whose value is an address in memory	int x = 3;
-> pointer	y = *a;
Expression using the address operator	double * v;
-> p = &a	sizeof(Star)
Expression using the reference declarator -> int x = 3;	nullptr
Expression using the dereferencing operator -> y = *a;	
Expression using the pointer declarator	
-> double * v;	
Expression returning the number of allocated bytes used by an object -> sizeof(Star)	
Address value 0	
-> nullptr	