

CH 13 C++ Flashcards

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<div><div>[1401] Which of these lines correctly prints 3?</div><div><pre>struct S {     int a = 3;     double b = 2.5; };  S obj, *p = &amp;obj;  cout &lt;&lt; p.a &lt;&lt; endl; cout &lt;&lt; *p.a &lt;&lt; endl; cout &lt;&lt; *(p).a &lt;&lt; endl; cout &lt;&lt; *(p.a) &lt;&lt; endl; cout &lt;&lt; (*p).a &lt;&lt; endl;</pre></div></div>	<div><pre>cout &lt;&lt; (*p).a &lt;&lt; endl;</pre></div>
<div><div>[1402] Which of these lines correctly prints 2.5?</div><div><pre>struct S {     int a = 3;     double b = 2.5; };  S obj, *p = &amp;obj;  cout &lt;&lt; *(p).b &lt;&lt; endl; cout &lt;&lt; *p.b &lt;&lt; endl; cout &lt;&lt; p-&gt;b &lt;&lt; endl; cout &lt;&lt; *(p.b) &lt;&lt; endl; cout &lt;&lt; *p-&gt;b &lt;&lt; endl;</pre></div></div>	<div><pre>cout &lt;&lt; p-&gt;b &lt;&lt; endl;</pre></div>

<div><div>[1403] Which of these lines displays the eighth element of a?</div><div><pre>int a[15];  cout &lt;&lt; a[8] &lt;&lt; endl; cout &lt;&lt; a(7) &lt;&lt; endl; cout &lt;&lt; a.at(7) &lt;&lt; endl; cout &lt;&lt; a[7] &lt;&lt; endl;</pre></div></div>	<div><pre>cout &lt;&lt; a[7] &lt;&lt; endl;</pre></div>
<div><div>[1404] Which prints the number of elements in a?</div><div><pre>int a[] = {1, 2, 3};  cout &lt;&lt; a.length &lt;&lt; endl; cout &lt;&lt; sizeof(a[0]) &lt;&lt; endl; cout &lt;&lt; a.size() &lt;&lt; endl; cout &lt;&lt; sizeof(a) &lt;&lt; endl; None of these</pre></div></div>	<div>None of these</div>
<div><div>[1405] What is stored in the last element of nums?</div><div><pre>int nums[3] = {1, 2};  Undefined value 2 Syntax error in array declaration 0 1</pre></div></div>	<div>0</div>
<div><div>[1406] Which line throws an out_of_range exception?</div><div><pre>double speed[5] = { . . . };  None of these cout &lt;&lt; speed[4] &lt;&lt; endl; cout &lt;&lt; speed[5] &lt;&lt; endl; cout &lt;&lt; speed[0] &lt;&lt; endl; cout &lt;&lt; speed[1] &lt;&lt; endl;</pre></div></div>	<div>None of these</div>
<div><div>[1407] Which line has undefined output?</div><div><pre>double speed[5] = { . . . };  cout &lt;&lt; speed[5] &lt;&lt; endl; cout &lt;&lt; speed[0] &lt;&lt; endl;</pre></div></div>	<div><pre>cout &lt;&lt; speed[5] &lt;&lt; endl;</pre></div>

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<div><div>int[5] d; int b[5]; int a[4]; None of these int[] c[5];</div></div>			
<div><div>[1409] What is printed?</div><div><div>int a[] = {1, 2, 3}; int b[] = {1, 2, 3};  if (a == b) cout &lt;&lt; "a == b" &lt;&lt; endl; else cout &lt;&lt; "a != b" &lt;&lt; endl;  a != b Undefined behavior a == b Syntax error; does not compile.</div></div></div>		<div>a != b</div>	
<div><div>[1410] What does the array a contain after this runs?</div><div><div>int a[] = {1, 2, 3}; int b[] = {4, 5, 6}; a = b;  Syntax error; does not compile. {4, 5, 6} {1, 2, 3} Undefined behavior</div></div></div>		<div>Syntax error; does not compile.</div>	
<div><div>[1411] Which assigns a value to the first position in letters?</div><div><div>char letters[26];  letters[0] = 'a'; letters[0] = "a"; letters[1] = 'b'; letters.front() = 'a'; letters = 'a';</div></div></div>		<div>letters[0] = 'a';</div>	
<div><div>[1412] Which assigns a value to the first position in letters?</div><div><div>char letters[26];  *letters = 'a'; *letters = "a"; *letters[0] = 'a'; *(letters + 1) = 'a'; *letters + 1 = 'b';</div></div></div>		<div>*letters = 'a';</div>	

<div><div>[1413] What does this loop do?</div><div><div>int a[] = {6, 1, 9, 5, 1, 2, 3}; int x(0); for (auto e : a) x += e; cout &lt;&lt; x &lt;&lt; endl;  Counts the elements in a Selects the largest value in a Has no effect Selects the smallest value in a Sums the elements in a</div></div></div>		<div>Sums the elements in a</div>	
<div><div>[1414] What is the address of the first pixel in the last row of this image?</div><div><div>Pixel *p; // address of pixel data int w, h; // width and height of image  p + w + h p + w + (h - 1) p + w * h p + w * (h - 1) None of these are correct</div></div></div>		<div>p + w * (h - 1)</div>	
<div><div>[1415] Which returns the last pixel on the first row of this image?</div><div><div>Pixel *p; // address of pixel data int w, h; // width and height of image  *p + w - 1 None of these are correct *(p + w) - 1</div></div></div>		<div>*(p + w - 1)</div>	



<div><div>Pixel *p; // address of pixel data</div><div>int w, h; // width and height of image</div><div></div><div></div><div>p[w - 1]</div><div>*p[w - 1]</div><div>None of these are correct</div><div>p[w] - 1</div><div>p + w - 1</div></div>	
<div><div>[1417] What is the equivalent array notation?</div><div></div><div>int dates[10];</div><div>cout &lt;&lt; (*dates + 2) + 2 &lt;&lt; endl;</div><div></div><div>dates[0] + 4</div><div>dates[2] + 2</div><div>dates[2]</div><div>dates[0] + 2</div><div>&amp;dates[2]</div></div>	<div>dates[0] + 4</div>
<div><div>[1418] What is the equivalent array notation?</div><div></div><div>int dates[10];</div><div>cout &lt;&lt; (dates + 2) &lt;&lt; endl;</div><div></div><div>dates[2] + 2</div><div>&amp;dates[2]</div><div>dates[0] + 2</div><div>dates[2]</div><div>dates[0] + 4</div></div>	<div>&amp;dates[2]</div>
<div><div>[1419] What is the equivalent array notation?</div><div></div><div>int dates[10];</div><div>cout &lt;&lt; *(dates + 2) &lt;&lt; endl;</div><div></div><div>dates[2] + 2</div><div>dates[0] + 4</div><div>dates[2]</div><div>&amp;dates[2]</div><div>dates[0] + 2</div></div>	<div>dates[2]</div>
<div><div>[1420] What is the equivalent array notation?</div><div></div><div>int dates[10];</div><div>cout &lt;&lt; (*dates) + 2 &lt;&lt; endl;</div><div></div><div>&amp;dates[2]</div><div>dates[0] + 2</div><div>dates[0] + 4</div><div>dates[2]</div><div>dates[2] + 2</div></div>	<div>dates[0] + 2</div>
<div><div>[1421] What is the equivalent array notation?</div><div></div><div>int dates[10];</div><div>cout &lt;&lt; *dates + 2 &lt;&lt; endl;</div><div></div><div>&amp;dates[2]</div><div>dates[2] + 2</div><div>dates[0] + 4</div><div>dates[2]</div><div>dates[0] + 2</div></div>	<div>dates[0] + 2</div>
<div><div>[1422] What is the equivalent array notation?</div><div></div><div>int dates[10];</div><div>cout &lt;&lt; *(dates + 2) + 2 &lt;&lt; endl;</div><div></div><div>&amp;dates[2]</div><div>dates[0] + 4</div><div>dates[0] + 2</div><div>dates[2]</div><div>dates[2] + 2</div></div>	<div>dates[2] + 2</div>



<pre>int a[] = {1, 2, 3, 4, 5, 6, 7}; int *p = a;  cout &lt;&lt; a[1] * 2 &lt;&lt; endl;  None of these <p><b>*p + 1</b> * 2</p> p + 1 * 2 (<b>*p + 1</b>) * 2 *(<b>p + 1</b>) * 2</pre>	
<p>[1424] What prints?</p> <pre>int a[] = {1, 3, 5, 7, 9}; int *p = a; cout &lt;&lt; *p++; cout &lt;&lt; *p &lt;&lt; endl;</pre> <p>13 None of these 33 22 12</p>	13
<p>[1425] What prints?</p> <pre>int a[] = {1, 3, 5, 7, 9}; int *p = a; cout &lt;&lt; **p; cout &lt;&lt; *p &lt;&lt; endl;</pre> <p>33 13 None of these 22 12</p>	33
<p>[1426] What prints?</p> <pre>int a[] = {1, 3, 5, 7, 9}; int *p = a; cout &lt;&lt; ++*p; cout &lt;&lt; *p &lt;&lt; endl;</pre> <p>13 12 None of these 22 33</p>	22
<p>[1427] Which pointer initialization is illegal?</p> <pre>int a[] = {1, 3, 5, 7, 9}; int *p3 = &amp;a[1]; None of these int *p1 = a; int *p4 = &amp;a; int *p2 = a + 3;</pre>	<pre>int *p4 = &amp;a;</pre>
<p>[1428] Which expression returns the number of countries?</p> <pre>string countries[] = {"Andorra", "Albania", ... };  len(countries) countries.length sizeof(countries) * sizeof(countries[0]) sizeof(countries) None of these</pre>	None of these
<p>[1429] Which expression returns the number of countries?</p> <pre>string countries[] = {"Andorra", "Albania", ... };  sizeof(countries) len(countries) sizeof(countries) / sizeof(string) None of these sizeof(countries) * sizeof(countries[0])</pre>	<pre>sizeof(countries) / sizeof(string)</pre>

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<div>string countries[] = {"Andorra", "Albania", . . . };</div> <div>len(countries)</div> <div>sizeof(countries) * sizeof(countries[0])</div> <div>sizeof(countries)</div> <div>None of these</div> <div>sizeof(countries) / sizeof(countries[0])</div>	
<div>[1431] Which array definition is illegal?</div> <div>int SIZE = 3;</div> <div>int a1[SIZE];</div> <div>int a2[3];</div> <div>int a3[3]{};</div> <div>int a4[] = {1, 2, 3};</div> <div>int a5[3] = {1, 2};</div> <div>a2</div> <div>a3</div> <div>None of these</div> <div>a1</div> <div>a5</div>	<div>a1</div>
<div>[1432] Which array definition contains undefined values?</div> <div>int SIZE = 3;</div> <div>int a1[SIZE];</div> <div>int a2[3];</div> <div>int a3[3]{};</div> <div>int a4[] = {1, 2, 3};</div> <div>int a5[3] = {1, 2};</div> <div>a3</div> <div>a1</div> <div>None of these</div> <div>a5</div> <div>a2</div>	<div>a2</div>

<div>[1433] Which array definition is initialized to all zeros?</div> <div>int SIZE = 3;</div> <div>int a1[SIZE];</div> <div>int a2[3];</div> <div>int a3[3]{};</div> <div>int a4[] = {1, 2, 3};</div> <div>int a5[3] = {1, 2};</div> <div>a5</div> <div>a2</div> <div>None of these</div> <div>a3</div> <div>a1</div>	<div>a3</div>
<div>[1434] Which array definition produces {0, 1, 2}?</div> <div>int SIZE = 3;</div> <div>int a1[SIZE];</div> <div>int a2[3];</div> <div>int a3[3]{};</div> <div>int a4[] = {1, 2, 3};</div> <div>int a5[3] = {1, 2};</div> <div>a5</div> <div>a3</div> <div>None of these</div> <div>a2</div> <div>a1</div>	<div>None of these</div>
<div>[1435] Which array definition is illegal?</div> <div>const int SIZE = 3;</div> <div>int a1[SIZE];</div> <div>int a2[3];</div> <div>int a3[3]{};</div> <div>int a4[] = {1, 2, 3};</div> <div>int a5[2] = {1, 2, 3};</div> <div>a2</div> <div>a5</div> <div>a3</div> <div>None of these</div> <div>a1</div>	<div>a5</div>



<div><div>int SIZE = 3; int a1[SIZE]; int a2[3]; int a3[3]{}; int a4[] = {1, 2, 3}; int a5[3] = {1, 2};</div><div>a3 a5 a2 a1 None of these</div></div>	
An incomplete type and a forward reference generally mean the same thing.	True
Explicitly initializing an array like this: int a[3] = {1, 2, 3}; requires the size and the number of elements supplied to be the same.	False
In C++ using == to compare one array to another is permitted (if meaningless).	True
You must use an integral constant or literal to specify the size of a built-in C++ array.	True
The reinterpret_cast instruction changes way that a pointer's indirect value is interpreted.	True
If p is a pointer to a structure, and the structure contains a data member x, you can access the data member by using the notation: (*p).x	True

C++ arrays have no support for bound-checking.	True
In C++ assigning one array to another is illegal	True
The allocated size of a built-in C++ array cannot be changed during runtime.	True
The size of the array is not stored along with its elements.	True
If img is a pointer to the first byte in an image loaded into memory, Pixel is a structure as defined in your textbook, you can create a Pixel pointer pointing to the image by writing: Pixel <b>p = reinterpret_cast&lt;Pixel &gt;</b> (img);	True
The subscripts of a C++ array range from 0 to the array size - 1.	True
C++ arrays have no built-in functions for inserting and deleting.	True
A forward reference can be used when you want to use a pointer to a structure as a data member without first defining the entire structure.	True
The elements of a C++ array created in a function are allocated on the stack.	True
The elements of a C++ array created outside of a function are allocated in the static-storage area.	True

The elements of a C++ string array with no explicit initialization, created in a function will be set to the empty string.	True
Explicitly initializing an array like this: int a[3] = {1, 2, 3}; requires the size to be the same or larger than the number of elements supplied.	True
In C++ printing an array name prints the address of the first element in the array.	True
In C++ there is no separate array variable. The array name is a symbolic representation of the address of the first element in the array.	True
In C++ initializing an array with the contents of another is illegal.	True
C++ arrays produce undefined results if you access an element outside the array.	True
Explicitly initializing an array like this: int a[] = {1, 2, 3}; works in all versions of C++.	True
You may use any kind of integral variable to specify the size of a built-in C++ array.	False
The elements of a C++ string array with no explicit initialization, created in a function	False



In C++ using == to compare one array to another is illegal.	False
The allocated size of a built-in C++ array may be changed during runtime	False
If img is a pointer to the first byte in an image loaded into memory, Pixel is a structure as defined in your textbook, you can create a Pixel pointer pointing to the image by writing: Pixel <b>p = static_cast&lt;Pixel&gt;</b> (img);	False
The reinterpret_cast instruction produces a temporary value by converting its argument.	False
In C++ initializing an array with the contents of another is permitted.	False
C++ arrays use bound-checking when you access their elements with the at() member function.	False
The elements of a C++ array created in a function are allocated on the heap.	False
In C++ assigning one array to another is permitted.	False
C++ arrays throw an out_of_bounds exception if you access an element outside the array.	False
In C++ an array variable and the array elements are separate. The array variable contains the address of the first element in the array.	False
In C++ printing an array name prints the value of the first element in the array.	False
The elements of a C++ int array with no explicit initialization, created in a function will be set to zero.	False
C++ arrays can be allocated with a size of 0.	False
The static_cast instruction changes way that a pointer's indirect value is interpreted.	False
The size of the array is stored along with its elements.	False
The allocated size of a built-in C++ array may be changed during runtime	False
A forward reference can be used when you want to use a structure as a data member without first defining the entire structure.	False
The elements of a C++ array created outside of a function are allocated on the stack.	False
If p is a pointer to a structure, and the structure contains a data member x, you can access the data member by using the notation: *p->x	False
C++ arrays offer built-in member functions for inserting and deleting.	False
Explicitly initializing an array like this: int a[] = {1, 2, 3}; only works in C++ 11.	False