

Take the Quiz Again

Attempt History

	Attempt	Time	Score
KEPT	Attempt 6	11 minutes	15 out of 15
LATEST	Attempt 6	11 minutes	15 out of 15
	Attempt 5	13 minutes	15 out of 15
	Attempt 4	14 minutes	15 out of 15
	Attempt 3	12 minutes	14 out of 15
	Attempt 2	16 minutes	15 out of 15
	Attempt 1	21 minutes	14 out of 15

Correct answers are hidden.

Submitted Jul 22 at 11:50pm



Question 1

1 / 1 pts

What is printed when you run this code?

```
int *n{nullptr};
cout << &n << endl;
```

- ☐ The word "nullptr"
- ☐ No output; compiler error.
- ☒ The address value where *n* is stored
- ☐ The address value 0
- ☐ No compilation errors, but undefined behavior

Question 2

1 / 1 pts

What is a common pointer error?

- ☐ Assigning a new value to a pointer
- ☐ Using indirection on a pointer
- ☒ Using a pointer without first initializing it
- ☐ Dereferencing a pointer
- ☐ Setting a pointer value to nullptr

Question 3

1 / 1 pts

Assume that *ppi* correctly points to *pi*. Which line prints the *size* (in bytes) of *pi*?

```
int main()
{
    double pi = 3.14159;
    double *ppi;
    // code goes here
    // code goes here
}
```

- ☐ cout << sizeof(ppi);
- ☐ cout << sizeof(*pi);
- ☐ cout << sizeof(&ppi);
- ☒ cout << sizeof(*ppi);
- ☐ None of these

Question 4

1 / 1 pts

What is true about this code?

```
int n{500};
int *p = &n;
```

- ☐ &p represents the indirect value of n

☐ p stores the same value as n

☒ *p is the value of n

☐ &n is the indirect value of p

☐ &p is the direct or explicit value of n

Question 51 / 1 pts

What is printed when you run this code?

```
int num = 0;
int *ptr = &num;
num = 5;
*ptr += 5;
cout << num << " " << *ptr << endl;
```

☐ 5 10

☐ 5 5

☒ 10 10

☐ Undefined; none of these

☐ 10 5



Question 61 / 1 pts

What is printed when you run this code?

```
int x(100);
cout << &x << endl;
```

☒ The memory location where x is stored

☐ The value of x (100)

☐ None of these

☐ The value stored at address 100

Question 71 / 1 pts

All of these are legal C++ statements; which of them uses the C++ *dereferencing operator*?

```
int a = 3, b = 4;
```

☐ None of these use the dereferencing operator.

☐ int y = a * b;

☒ int x = *p;

☐ z *= a;

☐ int *p = &b;

Question 81 / 1 pts

What is printed when you run this code?

```
int n{};
int *p = &n;
*p = 10;
n = 20;
cout << *p << endl;
```

☐ None of these

☒ 20

☐ The address of n

☐ 10

☐ 0

Question 91 / 1 pts

What is the term used to describe a variable which stores a memory address?

☒ pointer

☐ None of these

☐ rvalue

☐ lvalue

☐ reference

Question 101 / 1 pts

What is true about this code?

```
int * choice;
```

☐ choice currently points to an integer

☐ choice can point to any kind of object

☐ choice currently contains an integer

☒ choice contains an undefined address

☐ Syntax error; should be int choice*;

Question 111 / 1 pts

Assume that *ppi* correctly points to *pi*. Which line prints the address of *ppi*?

```
int main()
{
    double pi = 3.14159;
    double *ppi;
    // code goes here
    // code goes here
}
```

☐ cout << π

☒ cout << &ppi;

☐ cout << ppi;

☐ cout << *ppi;

☐ None of these

Question 121 / 1 pts

Assume that *p1* 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 *p1* and *p2*?

☐ p2 - p1 - 1;

☐ None of these

☒ p2 - p1;

☐ p1 - p2;

☐ p1 - p2 + 1;

Question 131 / 1 pts

Examine the following code. What is stored in *c* after it runs.

```
int f(int * p, int x)
{
    *p = x * 2;
    return x / 2;
}
...
int a = 3, b, c;
c = f(&b, a);
```

☐ 3

☐ 6

☐ Does not compile

☐ 2

☒ 1

Question 14

1 / 1 pts

Here is a fragment of pseudocode for the *negative()* function from your homework. What statement represents the underlined portion of code?

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

☐ *p = p + 1;

☒ p++;

☐ *p++;

☐ None of these

☐ &p++;

Question 15

1 / 1 pts

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);
```

☐ Does not compile

☐ 1

☐ 3

☐ 2

☒ 6

