Q-18

Due No due date **Points** 15 **Questions** 15 **Time Limit** 30 Minutes **Allowed Attempts** Unlimited

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Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	21 minutes	14 out of 15

ⓘ Correct answers are hidden.

Submitted Jul 21 at 11:44am

Question 1

1 / 1 pts

What is a common pointer error?

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

Question 2

1 / 1 pts

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

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

- `int y = a * b;`
- `z *= a;`
- `int x = *p;`
- None of these use the dereferencing operator.
- `int *p = &b;`

Question 3

1 / 1 pts

What is printed when you run this code?

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

- The value of x (`100`)
- The value stored at address `100`
- The memory location where x is stored
- None of these

Question 4

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
}
```

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

Question 5

1 / 1 pts

What is true about this code?

```
int * choice;
```

- `choice` can point to any kind of object
- Syntax error; should be `int choice*;`
- `choice` currently points to an integer
- `choice` currently contains an integer
- **`choice` contains an undefined address**

Question 6

1 / 1 pts

What is printed when you run this code?

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

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

Question 7

1 / 1 pts

What is printed when you run this code?

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

- **No compilation errors, but undefined behavior**
- The word "`nullptr`"
- No output; compiler error.
- The address value `0`

Question 8

1 / 1 pts

What is printed when you run this code?

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

- The value 0 (stored in n)
- None of these
- **No compilation errors, but undefined behavior when run**
- The address value where *n* is stored
- Will not compile

Question 9

1 / 1 pts

What is printed when you run this code?

```
int *p = &0;
cout << *p << endl;
```

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

Question 10

1 / 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 << ppi;
- cout << π
- None of these
- cout << *ppi;
- **cout << &ppi;**

Question 11

1 / 1 pts

Which line below points ***ppi*** to ***pi***?

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

- *ppi = π
- None of these
- **ppi = π**
- *ppi = pi;
- ppi& = pi;

Question 12

1 / 1 pts

Assume that p is a pointer to the first of 50 contiguous integers stored in memory. What is the address of the first integer appearing after this sequence of integers?

- **p + 50;**
- sizeof(p) + 50;
- None of these
- &p + 50;
- p + sizeof(int) * 50;

Question 13

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
- 2
- 3
- **6**
- 1

Question 14

1 / 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***?

- `p1 - p2;`
- `p2 - p1 - 1;`
- `p1 - p2 + 1;`
- None of these
- `p2 - p1;`

Incorrect

Question 15

0 / 1 pts

Examine this version of the ***swap()*** function. How do you call it?

```
void swap(int& x, int * y)
{
    . . .
}
. . .
int a = 3, b = 7;
// What goes here ?
```

- `swap(a, b);`
- `swap(a, &b);`
- None of these
- `swap(&a, b);`
- `swap(&a, &b);`