Q-19

Due No due date **Points** 10 **Questions** 12 **Time Limit** 30 Minutes **Allowed Attempts** Unlimited

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Attempt History

	Attempt	Time	Score
KEPT	Attempt 6	6 minutes	10 out of 10
LATEST	Attempt 6	6 minutes	10 out of 10
	Attempt 5	9 minutes	10 out of 10
	Attempt 4	8 minutes	10 out of 10
	Attempt 3	9 minutes	10 out of 10
	Attempt 2	14 minutes	9 out of 10
	Attempt 1	9 minutes	10 out of 10

Correct answers are hidden.

Submitted Jul 23 at 2:07am

Question 1

1 / 1 pts

Which array definition contains undefined values?

```
int SIZE = 3;
int a1[SIZE];
int a2[3];
int a3[3]{};
int a4[] = {1, 2, 3};
int a5[3] = {1, 2};
```

- a3
- a2 (selected)
- None of these
- a5
- a1

Question 2

1 / 1 pts

Which line throws and `out_of_range` exception?

```
double speed[5] = {. . .};
```

- `cout << speed[4] << endl;`
- `cout << speed[1] << endl;`
- None of these (selected)
- `cout << speed[5] << endl;`
- `cout << speed[0] << endl;`

Question 3

1 / 1 pts

What is printed?

```
int a[] = {1, 2, 3};
int b[] = {1, 2, 3};

if (a == b) cout << "a == b" << endl;
else cout << "a != b" << endl;
```

- Undefined behavior
- `a == b`
- Syntax error; does not compile.
- `a != b` (selected)

Question 4

1 / 1 pts

Which array definition is illegal?

```
const int SIZE = 3;
int a1[SIZE];
int a2[3];
```

```
int a3[3]{};
int a4[] = {1, 2, 3};
int a5[2] = {1, 2, 3};
```

- ○ None of these
- ○ a2
- ○ a3
- ◉ a5
- ○ a1

Question 5

0.5 / 0.5 pts

In C++ printing an array name prints the address of the first element in the array.

- ◉ True
- ○ False

Question 6

0.5 / 0.5 pts

In C++ an array variable and the array elements are separate. The array variable contains the address of the first element in the array.

- ○ True
- ◉ False

Question 7

0.5 / 0.5 pts

The size of the array is stored along with its elements.

- ○ True
- ◉ False

Question 8

0.5 / 0.5 pts

In C++ printing an array name prints the value of the first element in the array.

- ○ True
- ◉ False

Question 9

1 / 1 pts

Here is the pseudocode for the ***greenScreen()*** function from your homework. What single statement sets the red, green and blue components to **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
```

- ○ `p = p + 1 = p + 2 = 0;`
- ◉ `*(p) = *(p + 1) = *(p + 2) = 0;`
- ○ `&(p + 1) = &(p + 2) = &(p + 3) = 0;`
- ○ None of these
- ○ `*(p + 1) = *(p + 2) = *(p + 3) = 0;`

Question 10

1 / 1 pts

What is the equivalent ***array notation***?

```
int dates[10];
cout << *dates + 2 << endl;
```

- ◉ `dates[0] + 2`
- ○ `dates[2]`

- dates[0] + 4
- &dates[2]
- dates[2] + 2

Question 11

1 / 1 pts

Which returns the last pixel on the first row of this image?

```
Pixel *p;   // address of pixel data
int w, h;   // width and height of image
```

- None of these are correct
- *p[w - 1]
- p[w] - 1
- p + w - 1
- **p[w - 1]**

Question 12

1 / 1 pts

What is the equivalent ***address-offset notation***?

```
int a[] = {1, 2, 3, 4, 5, 6, 7};
int *p = a;

cout << a[1] * 2 << endl;
```

- *p + 1 * 2
- None of these
- p + 1 * 2
- ***(p + 1) * 2**
- (*p + 1) * 2