Q-19

Take the Quiz Again

Attempt History

	Attempt	Time	Score
KEPT	Attempt 5	9 minutes	10 out of 10
LATEST	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 2am

Question 1   1 / 1 pts

What is printed?

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

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

- ○ Undefined behavior
- ○ Syntax error; does not compile.
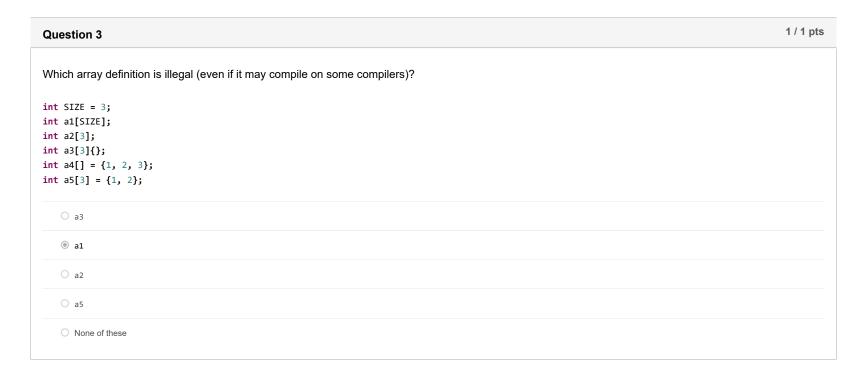- ○ a == b
- ◉ a != b

Question 2   1 / 1 pts

Which array definition is illegal?

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

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

Question 3   1 / 1 pts

Which array definition is illegal (even if it may compile on some compilers)?

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

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

Question 4   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

- ○ a1

- ○ None of these

- ◉ a2

- ○ a5

Question 5

0.5 / 0.5 pts

The allocated size of a built-in C++ array cannot be changed during runtime.

- ◉ True

- ○ False

Question 6

0.5 / 0.5 pts

C++ arrays have no support for bound-checking.

- ◉ True

- ○ False

Question 7

0.5 / 0.5 pts

Explicitly initializing an array like this: *int a[3] = {1, 2, 3};* requires the size to be the same or smaller than the number of elements supplied.

- ○ True

- ◉ False

Question 8

0.5 / 0.5 pts

C++ arrays offer built-in member functions for inserting and deleting.

- ○ True

- ◉ False

Question 9

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

- ○ p + 1 * 2

- ○ None of these

- ○ (*p + 1) * 2

- ◉ *(p + 1) * 2

Question 10

1 / 1 pts

What is the address of the first pixel in the last row of this image?

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

- ○ p + w * h
```

○ p + w + h

○ p + w + (h − 1)

○ None of these are correct

◉ p + w * (h − 1)

## Question 11

What is the equivalent *array notation*?

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

◉ dates[0] + 4

○ dates[2] + 2

○ &dates[2]

○ dates[0] + 2

○ dates[2]

Question 12

What is the equivalent *array notation*?

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

○ dates[0] + 2

○ dates[2]

○ &dates[2]

○ dates[0] + 4

◉ dates[2] + 2