

## Self-test exercise:

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1. Identify any errors in the following array declarations.

a. `int x[4] = { 8, 7, 6, 4, 3 };`

b. `int x[ ] = { 8, 7, 6, 4 };`

c. `const int SIZE = 4;`

d. `int x[SIZE];`

2. What is the output of the following code?

```
char symbol[3] = {'a', 'b', 'c'};
```

```
for (int index = 0; index < 3; index++)
```

```
    cout << symbol[index];
```

3. What is the output of the following code?

```
double a[3] = {1.1, 2.2, 3.3};
```

```
cout << a[0] << " " << a[1] << " " << a[2] << endl;
```

```
a[1] = a[2];
```

```
cout << a[0] << " " << a[1] << " " << a[2] << endl;
```

4. What is the output of the following code?

```
int i, temp[10];
```

```
for (i = 0; i < 10; i++)
```

```
    temp[i] = 2 * i;
```

```
for (i = 0; i < 10; i++)
```

```
    cout << temp[i] << " ";
```

```
cout << endl;
```

```
for (i = 0; i < 10; i = i + 2)
```

```
    cout << temp[i] << " ";
```

5. What is wrong with the following piece of code?

```
int sample_array[10];
```

```
for (int index = 1; index <= 10; index++)
```

```
    sample_array[index] = 3 * index;
```