

- Solution

The solution to the exercise in the previous lesson will be explained in this lesson.

WE'LL COVER THE FOLLOWING ^

- Solution
- Explanation

Solution

```
#include <array>
#include <iostream>

int main(){

    std::cout << std::endl;

    std::array<int, 4> arr= {1, 2, 3, 4};

    for ( auto a: arr){ std::cout << a << " " ; }
    std::cout << std::endl;

    arr[0]=1000;
    arr[2]=5;

    for ( auto a: arr){ std::cout << a << " " ; }
    std::cout << std::endl;

    arr.at(0)= '2';
    arr.at(2)= 'c';

    for ( auto a: arr){ std::cout << a << " " ; }
    std::cout << std::endl;

    arr.at(100)= 'l';
}
```



Explanation

- In line 8, we have initialized an `std::array<int>`.
- In lines 13 and 14, we replace the values in `arr` using the square bracket accessing.
- In lines 19 and 20, we replace the values in `arr` using the `at` accessing. Note that we are replacing the values with char types, so the values in `arr` are the ASCII values of `'2'` and `'c'`.
- In line 25, we are accessing beyond the bounds of `arr`. An `std::out_of_range` exception thrown when accessing out of bounds of an `std::array` using `at`.

For further information, see [std::array](#).

The next lesson will introduce you to smart pointers in Modern C++.