

Execution Policies Solutions

Execution Policies

- Write a program which exercises the following code and outputs the final values of `vec`

```
vector<int> vec(2000);
```

```
int count {0};
```

```
for_each(begin(vec), end(vec), [&] (int& x) { x = ++count; });
```

- Rewrite the program to use each of the C++17 execution policies in turn

Execution Policies

- Compare the output from each program, explaining any unusual features
- **No policy**
 - Values will be from 1 to 2000. Will be in numerical order
- **seq**
 - Values will be from 1 to 2000. May not be in numerical order
- **par**
 - Values will be from 1 to n
 - If count is not protected against data races, n will differ from 2000.
 - May not be in numerical order
- **par_unseq**
 - Values will be from 1 to n
 - If count is not protected against data races, n will differ from 2000.
 - May not be in numerical order