cppcoreguidelines-pro-bounds-constant-array-index

- This check flags all array subscript expressions on static arrays and `std::array`s that either do not have a constant integer expression index or are out of bounds (for `std::array`). For out-of-bounds checking of static arrays, see the `–Warray–bounds` Clang diagnostic.

  - **Bounds.2**: Only index into arrays using constant expressions: Pass pointers to single objects (only) and Keep pointer arithmetic simple.

- Optionally, this check can generate fixes using **`gsl::at`** for indexing.
    - If you provide clang-tidy with a path to **`gsl/gsl.h`** (non-standard)

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```
clang-tidy -checks=‘cppcoreguidelines-pro-bounds-constant-array-index' file.cpp

int get_index();

int main()
{
    std::array arr = { 0, 1, 2, 3, 4, 5 };
    auto v = arr[get_index()];
}
```