Array in C++

① C type array

Type name[size]; {Dafination of array}

=> Accessing individual elements:

name[i] → i^{th} element

↓

0 to size

=> name is actually pointer to first element. (Of Type)

=> datas are stored in stack continuously.

=> Array over heap

Example

```
int* another = new int[5];
delete[] another;
```

{for Creating array on heap}

{for deleting array}

② Std:: array

=> It is Inside array header file

#include <array>

=> Declaration

```
template < class T, std::size_t N>
struct array;
```

Example

```
std::array<int, 5> another;
```

⇒ Member functions:

Element access

① at (size-type pos);
  ↳ with bound checking.

② operator[]
  ↳ No bound checking.

③ front()

④ back()

⑤ data()

Capacity

① empty()

② size() .

Operations

① fill (const T& value)
  ↳ Assign the given value to all element in the container.