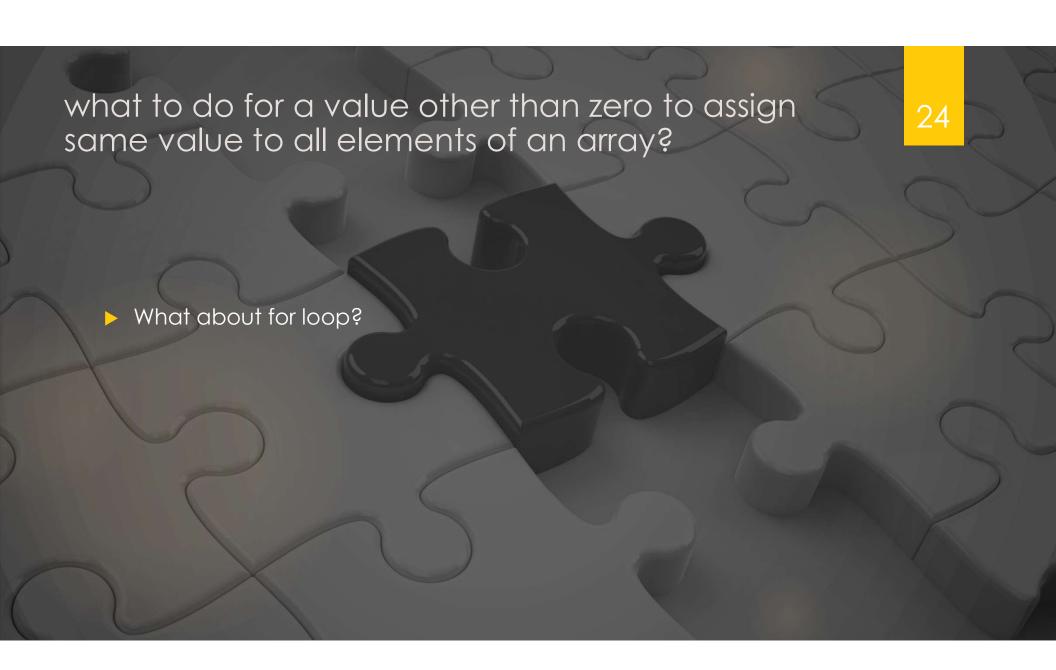
Traversing an array using enhanced for loop

Example of using size of operator to find length of an array



```
for (int i = 0; i < N; i++) {
    arr[i] = value;
}</pre>
```

5. Initializing with the help of loop

```
arr[i] = new_value;
```

Update array element

Checking the size of an array and array element using size of ()

```
#include <iostream>
using namespace std;
int main()
    int arr[] = \{ 1, 2, 3, 4, 5 \};
    // Size of one element of an array
    cout << "Size of arr[0]: " << sizeof(arr[0]) << endl;</pre>
   // Size of array 'arr'
    cout << "Size of arr: " << sizeof(arr) << endl;</pre>
    // Length of an array
    int n = sizeof(arr) / sizeof(arr[0]);
    cout << "Length of an array: " << n << endl;
    return 0;
```

Access the memory address of an array using address (&) operator

```
// Printing address of the arrary using array name
cout << "Memory address of arr: " << &arr << endl;</pre>
```

```
1 #include<iostream>
2 using namespace std;
3
4 int main(){
5
6 int arr[5];
7
8 cout<<&arr<<endl;
cout<<&arr[0]<<endl;
cout<<&arr[1]<<endl;
cout<<&arr[2];
}
12
}</pre>
```

& Operator returns the starting address of an array element

```
#include<iostream>
using namespace std;

int main(){

string vegies[5];

cout<<"Enter first vegetable: ";
cin>>vegies[0];
cout<<vegies[0];</pre>
```

```
Enter first vegetable: Tomatoe
Tomatoe
Tomatoe
------
Process exited after 4.321 seconds with return value 0
Press any key to continue . . .
```

Taking Input inside an array

```
#include<iostream>
using namespace std;

int main(){

string vegies[5];
int array_length=sizeof(vegies)/sizeof(vegies[0]);

for(int i=0; i<array_length; i++){
    cout<<"Enter Vegetable "<<ii+1<<" :";
    cin>>vegies[i];
}

return 0;
Enter Vegetable 1 :Carrots
Enter Vegetable 2 :Spinach
Enter Vegetable 3 :Tomato
Enter Vegetable 4 :Potato
Enter Vegetable 5 :Corriander

Process exited after 22.07 seconds with return value
Press any key to continue . . . |

Process exited after 22.07 seconds with return value
Press any key to continue . . . |

Process exited after 22.07 seconds with return value
Press any key to continue . . . |

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Process exited after 22.07 seconds with return value
Press any key to continue . . . |

Process exited after 22.07 seconds with return value
Process exited after 22.07 seconds with retu
```

Taking Multiple Inputs in an array

Activity (Must complete before coming tomorrow)

- Declare an array to store the weight of 5 persons
- ▶ Input the weight of 5 persons from the user
- Find out the average weight value (average weight will be sum of all the weights divided by number of persons)