

C++ Arrays Real-Life Examples

Real Life Example

To demonstrate a practical example of using arrays, let's create a program that calculates the average of different ages:

Example

```
// An array storing different ages
int ages[8] = {20, 22, 18, 35, 48, 26, 87, 70};

float avg, sum = 0;
int i;

// Get the length of the array
int length = sizeof(ages) / sizeof(ages[0]);
```

```
// Loop through the elements of the array
```

```
for (int age : ages) {  
    sum += age;  
}
```

```
// Calculate the average by dividing the sum by the length
```

```
avg = sum / length;
```

```
// Print the average
```

```
cout << "The average age is: " << avg << "\n";
```

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And in this example, we create a program that finds the lowest age among different ages:

Example

```
// An array storing different ages
```

```
int ages[8] = {20, 22, 18, 35, 48, 26, 87, 70};
```

```
int i;
```

```
// Get the length of the array
```

```
int length = sizeof(ages) / sizeof(ages[0]);
```

```
// Create a variable and assign the first array element of ages  
to it
```

```
int lowestAge = ages[0];
```

```
// Loop through the elements of the ages array to find the  
lowest age
```

```
for (int age : ages) {  
    if (lowestAge > age) {  
        lowestAge = age;  
    }  
}
```

```
// Print the lowest age
```

```
cout << "The lowest age is: " << lowestAge << "\n";
```

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