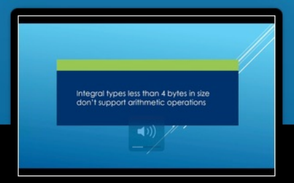
Weird Integral Types

Integral types less than 4 bytes in size don't support arithmetic operations



char	short int

```cpp
short int var1 {10};
short int var2 {20};

char var3 {40};
char var4 {50};

std::cout << "size of var1 : " << sizeof(var1) << std::endl;
std::cout << "size of var2 : " << sizeof(var2) << std::endl;
std::cout << "size of var3 : " << sizeof(var3) << std::endl;
std::cout << "size of var4 : " << sizeof(var4) << std::endl;


auto result1 = var1 + var2 ;
auto result2 = var3 + var4;

std::cout << "size of result1 : " << sizeof(result1) << std::endl;
std::cout << "size of result2 : " << sizeof(result2) << std::endl;
```

```cpp
short int var1 {10};
short int var2 {20};

char var3 {40};
char var4 {50};

std::cout << "size of var1 : " << sizeof(var1) << std::endl;
std::cout << "size of var2 : " << sizeof(var2) << std::endl;
std::cout << "size of var3 : " << sizeof(var3) << std::endl;
std::cout << "size of var4 : " << sizeof(var4) << std::endl;


auto result1 = var1 + var2 ;
auto result2 = var3 + var4;

std::cout << "size of result1 : " << sizeof(result1) << std::endl;
std::cout << "size of result2 : " << sizeof(result2) << std::endl;
```

Conversion to int

The same behavior is present on other operators like bitwise shift operators (>> and <<) .