



EXERCISES — Assignment Operator

version #



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1 Assignment Operator

Files to submit:

- assignment_operator/assignment_operator.c

Authorized headers: You are only allowed to use the functions defined in the following headers:

- stddef.h
- err.h
- assert.h
- errno.h

1.1 Goal

Write a set of functions performing basic arithmetic operations on pointers to integers.

1.1.1 Addition assignment

Write a function that takes two `int*` as parameters and stores the sum of values pointed to by both arguments in the first one.

Prototype

```
void plus_equal(int *a, int *b);
```

1.1.2 Subtraction assignment

Write a function that takes two `int*` as parameters and stores the difference between the values pointed to by both arguments in the first one.

Prototype

```
void minus_equal(int *a, int *b);
```

1.1.3 Multiplication assignment

Write a function that takes two `int*` as parameters and stores the product of values pointed to by both arguments in the first one.

Prototype

```
void mult_equal(int *a, int *b);
```

1.1.4 Division assignment

Write a function that takes two `int*` as parameters and stores the euclidian division of values pointed by both arguments in the first one. The function must return the rest of the euclidian division.

If one of the argument is `NULL` or if `*b == 0`, the function must not do anything and return 0.

Prototype

```
int div_equal(int *a, int *b);
```

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