Exercises — Generic matrices multip

version #

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1 Generic matrices multiplication

Files to submit:

- int_mats_mult/mat_mult.c
- int_mats_mult/mat_mult.h

Provided files:

- int_mats_mult/mat_mult.h

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

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

1.1 Goal

You have to implement the `mat_mult` function that compute the multiplication of two matrices. Its prototype is:

```
void mat_mult(int **mat1, int **mat2, size_t *matrices_size, int **out);
```

The `mat1` and `mat2` values are accessed according to the following format: `mat[line][column]`.

The `matrices_size` argument contains the size of both matrix, and respects the following format `{a, b, c}` where `mat1` is of size (a, b) and `mat2` of size (b, c). As you may suspect, this means that only compatible matrices will be given to this function.

The result has to be stored in the `out` parameter, which has been previously allocated.

It is my job to make sure you do yours.