



# EXERCISES — My atoi

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version #



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# 1 My atoi

**Files to submit:**

- my\_atoi/my\_atoi.h
- my\_atoi/my\_atoi.c

**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 must implement the following `my_atoi` function :

```
int my_atoi(const char *str);
```

This function converts the string argument into an int. The argument can be composed as follows (in this order):

- A (possibly empty) sequence of whitespace characters that will be discarded.
- An optional plus or minus sign.
- A nonempty sequence of digits.

In any other cases `my_atoi` must return 0.

Here are some precisions:

- If a digit is followed by a non-digit character, then you must return 0.
- Whitespaces are only allowed before the sign, if there is any whitespace between the sign and the digits, then you must return 0.
- There can only be one sign, if there are two or more signs, return 0.

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