



EXERCISES — Array extremas

version #



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1 Array extremas

Files to submit:

- array_max_min/array_max_min.c

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

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

1.1 Goal

Write a function that takes an array `tab` of integers and its length `len`, along with two pointers and set the value of the two pointers to the maximum and minimum of the array.

If `tab` is `NULL` or `len` is equal to 0, the function does nothing.

Prototype:

```
void array_max_min(int tab[], size_t len, int *max, int *min)
```

1.2 Example

```
int main(void)
{
    int max = 0;
    int min = 0;
    int tab[] = { 5, 3, 1, 42, 53, 3, 47 };
    size_t len = 7;
    array_max_min(tab, len, &max, &min);
    printf("max : %d\n", max);
    printf("min : %d\n", min);

    return 0;
}
```

Output:

```
42sh$ ./array_max_min
max : 53
min : 1
```

It is my job to make sure you do yours.