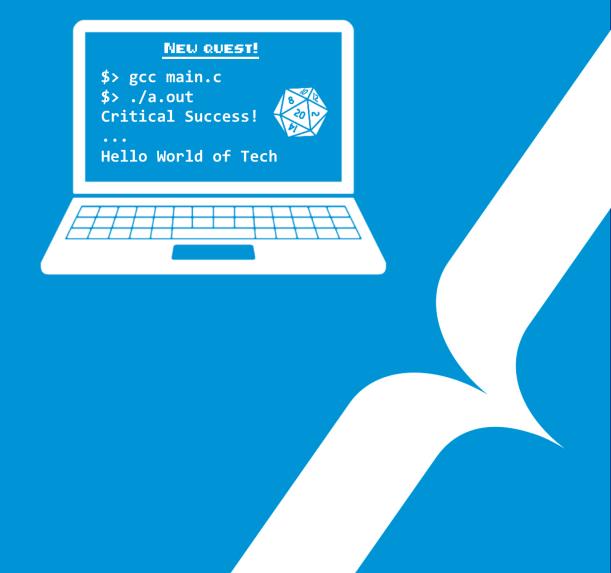
{EPITECH}

DAY 08 COMPILATION, ALLOCATION



DAY 08

Preliminaries



Language: C

The totality of your source files, except all useless files (binary, temp files, obj files,...), must be included in your delivery.



- ✓ Don't push your main function into your delivery directory, we will be adding our own. Your files will be compiled adding our main.c.
- ✓ If one of your files prevents you from compiling with *.c, the Autograder will not be able to correct your work and you will receive a 0.



All .c files from your delivery folder will be collected and compiled with your libmy, which must be found in lib/my/. For those of you using .h files, they must be located in include/ (like the my.h file).



Some tests will automatically compile your functions the following way:

Your library will be built using the lib/my/build.sh script you previously made (see DayO7).



Clone your repository at the beginning of the day and submit your work on a regular basis! The delivery directory is specified within the instructions for each task. In order to keep your repository clean, pay attention to gitignore.



Allowed system function(s): write, malloc, free



We still encourage you to write unit tests for all your functions! Check out Day06 if you need an example, and re-read the guide.



Task 01 - my_strdup

Delivery: my_strdup.c

Write a function that allocates memory and copies the string given as argument in it. It must be prototyped as follows:

```
char *my_strdup(char const *src);
```

The function must return a pointer to the newly allocated string.

Task 02 - concat_params

Delivery: concat_params.c

Write a function that turns the command-line given arguments into a single string. Arguments are to be separated by '\n'. The function will be called the following way:

```
int main(int ac, char **av)
{
    my_putstr(concat_params(ac, av));
    return (EXIT_SUCCESS);
}
```

The function must be prototyped as follows:

```
char *concat_params(int argc, char **argv);
```



Task 03 - my_show_word_array

Delivery: my_show_word_array.c

Write a function that displays the content of an array of words.

There must be one word per line, and each word must end with '\n', including the last one.

The function must be prototyped as follows:

```
int my_show_word_array(char * const *tab);

Here is an example of main function:
int main()
{
    char *test_word_array[] = {"The", "Answer", "to", "the", "Great", "Question...", "Of",
        "Life,", "the", "Universe", "and", "Everything...", "Is...", "Forty-two,", 0};

    my_show_word_array(test_word_array);
}
```

Task 04 - my_str_to_word_array

Delivery: my_str_to_word_array.c

Write a function that splits a string into words. Separators will all be non-alphanumeric characters.

The function returns an array in which each cell contains the address of a string (representing a word).

The last cell must be null to terminate the array.

The function must be prototyped as follows:

```
char **my_str_to_word_array(char const *str);
```

Task 05 - convert base

Delivery: convert_base.c

Write a function that returns the result from the nbr string conversion (expressed in a base_from radix to a base_to radix), in the form of a newly, and sufficiently, allocated string.

The number, represented by nbr, fits in an integer.

The function must be prototyped as follows:

```
char *convert_base(char const *nbr, char const *base_from, char const *base_to);
```



#