





C - Pool - Tek1 Evalexpr

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Subject

- The purpose is to write the eval expr function.
- It must be prototyped like this:

```
int eval_expr(char *str);
```

- Respect the norm takes time, but is good for you. This way your code will respect the norm since the first written line.
- Turn-in directory: Piscine_C_eval_expr



Indices

Remember it is always better to create your repository at the beginning of the day and to turn-in your work on a regular basis

• This function take a character string as parameter that represents an arithmetical expression.

Example:

```
"3 + 42 * (1 - 2 / (3 + 4) - 1 % 21) + 1"
```

- This expression will have to be calculated, and the result returned as return value by the function.
- The string that you will receive will be <u>valid</u> (no bugs, no bad address, no letter nor syntax error, no division by zero...).
- The 5 operators must be supported:
 - \circ + for addition
 - - for subtraction
 - / for division
 - \circ * for multiplication
 - ∘ % for modulo
- The function also has to handle any number of parenthesises.
- You must realize a Makefile that permits to generate an executable eval_expr with a rule all. A rule clean and a rule fclean must also be present.
- You can use you lib from your Makefile, it has to be stored like for any pool day: Piscine_C_eval_expr/lib/my the my.h file being in:

Piscine C eval expr/include



Evalexpr



• Your main must be the following one:

```
int main(int ac, char **av)

{
    if (ac > 1)

4    {
        my_put_nbr(eval_expr(av[1]));
        my_putchar('\n');

7    }
    return (0);

9 }
```

• We will test in this way:

```
$> make clean
$> make all
$> ./eval_expr '(3+2)*5'
...
$> make fclean
```







