



C - Pool - Tek1

Subject EvalExpr

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Instructions

- The subject may change until one hour before turn-in.
- 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_evalexpr`



Hints

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



Hints

Only the project turned in by your project leader will be picked up

- Remember to discuss on the pool forum!



Evalexpr

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

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

- 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 valid (no bugs, no bad address, no letter nor syntax error, no division by zero...).
- The 5 operators must be supported :
 - + for addition
 - - for subtraction
 - / for division
 - * for multiplication
 - % for modulo
- The function also has to handle any number of parentheses.
- You must realize a Makefile that permits to generate an executable `eval_expr` with the rules `all`, `clean`, `fclean`, `re` and must not relink.



- Your main must be the following one:

```
1 int main(int ac, char **av)
2 {
3     if (ac > 1)
4     {
5         my_put_nbr(eval_expr(av[1]));
6         my_putchar('\n');
7     }
8     return (0);
9 }
```



Hints If everything went right, your program must return 0

- We will test in this way:

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

