

CS Basics - Exercises

Strings and linking with C

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1 Link with C

Write a hello world program using the C `put()` function.

You must initialize a string terminating with 0 and give its address as a parameter to the function `put()`

For the compilation, use NASM, for the linking use `gcc` (not `ld`).

Do not forget to change `._start` into `main`.

2 Write a program: Multiplier

- That asks the user to type two numbers (using the C library function)
- That reads the two numbers from the input into a register (using C-library function)
- That computes the multiplication of the two numbers
- That prints out (using `printf`) the string: "The result of 60 * 5 is 300 \n"

3 Write a program for the exponentiation

- It takes two arguments `x` and `y` and prints the result x^y on the standard output

```
bie1@mymachine> ./exponentiate 10 5
```

The result 10 exponent 5 = 100000

- You must read the arguments
- And use `printf` for displaying the result