Unix System

my_printf

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Contents

Administrative details

- The sources myst be turned-in on the `PSU_year_my_printf` directory
  ex: PSU_2013_my_printf for the 2013-2014 scolar year
- Your Makefile must generate your libmy which must contain the my_printf function.

`The norm will be checked in every file of your library`

Subject

- You must recode the `printf` function from the C Library.
- Your function will be named `my_printf` and shall be prototyped as `printf`.
- You don't need to manage the buffer handling like the printf function from C Library.
- You must handle all the printf formatting flags, except:
  - The `float` and `double` handling (optional).
  - The flag %n (optional).
- You will add the handling of %b which displays an unsigned number in binary base.
- You will handle the %S flag which displays a string like %s, but the non-printable characters (ascii values < 32 or $>= 127$) must be represented with a \ followed by the value of the character in octal base.

```
1   Example:
2
3   char str[5];
4   my_strcpy(str, "toto");
5   str[1] = 6;
6   my_printf("%S", str);
7
8   Will give:
9
10  t\006to
```

Indices `man 3 printf / man 3 stdarg`

Authorized functions

- malloc
- free
- man 3 stdarg