


Chapter XV

Exercise 12 : ft_print_memory

	Exercise 12
ft_print_memory	
Turn-in directory : <i>ex12/</i>	
Files to turn in : ft_print_memory.c	
Allowed functions : write	

- Create a function that displays the memory area onscreen.
- The display of this memory area should be split into three "columns" separated by a space :
 - The hexadecimal address of the first line's first character followed by a ':'.
 - The content in hexadecimal with a space each 2 characters and should be padded with spaces if needed (see the example below).
 - The content in printable characters.
- If a character is non-printable, it'll be replaced by a dot.
- Each line should handle sixteen characters.
- If **size** equals to 0, nothing should be displayed.

- Example:

```
$> ./ft_print_memory
000000010a161f40: 426f 6e6a 6f75 7220 6c65 7320 616d 696e Bonjour les amin$
000000010a161f50: 6368 6573 090a 0963 2020 6573 7420 666f ches...c est fo
000000010a161f60: 7509 746f 7574 0963 6520 7175 206f 6e20 u.tout.ce qu on
000000010a161f70: 7065 7574 2066 6169 7265 2061 7665 6309 peut faire avec.
000000010a161f80: 0a09 7072 696e 745f 6d65 6d6f 7279 0a0a ..print_memory..
000000010a161f90: 0a09 6c6f 6c2e 6c6f 6c0a 2000      ..lol.lol. .
$> ./ft_print_memory | cat -te
0000000107ff9f40: 426f 6e6a 6f75 7220 6c65 7320 616d 696e Bonjour les amin$
0000000107ff9f50: 6368 6573 090a 0963 2020 6573 7420 666f ches...c est fo$
0000000107ff9f60: 7509 746f 7574 0963 6520 7175 206f 6e20 u.tout.ce qu on $
0000000107ff9f70: 7065 7574 2066 6169 7265 2061 7665 6309 peut faire avec.$
0000000107ff9f80: 0a09 7072 696e 745f 6d65 6d6f 7279 0a0a ..print_memory..$
0000000107ff9f90: 0a09 6c6f 6c2e 6c6f 6c0a 2000      ..lol.lol. .$
$>
```

- Here's how it should be prototyped :

```
void      *ft_print_memory(void *addr, unsigned int size);
```

- It should return addr.