

```
#include <unistd.h>
```

```
void ft_putchar(char c)
```

```
{  
    write(1, &c, 1);  
}
```

```
void print_memory(const void *addr, size_t size)
```

```
{  
    const char *base = "0123456789abcdef";  
    size_t i = 0;  
    unsigned char *str = (unsigned char*)addr;  
    char line[17];  
    int nb;  
    int j;  
  
    // Until finished with line  
    while (i < size || i % 16 != 0)  
    {  
        if (i < size)  
        {  
            nb = str[i] / 16;  
            ft_putchar(base[nb]);  
            nb = str[i] % 16;  
            ft_putchar(base[nb]);  
            // Store printable characters  
            line[i % 16] = (str[i] >= 32 && str[i] <= 126) ? str[i] : '.';  
        }  
        // Put space in last line  
        else  
            write(1, " ", 2);  
        i++;  
        if (i % 2 == 0)  
            ft_putchar(' ');  
        if (i % 16 == 0)  
        {  
            j = 0;  
            while (j < 16)  
            {  
                // Keep up with location  
                //(i - 16 == beginning of line) + j place in line  
                // last line  
                if (i - 16 + j >= size)  
                    break ;  
                ft_putchar(line[j++]);  
            }  
            ft_putchar('\n');  
        }  
    }  
}
```