

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

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

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

```
void ft_putascii(unsigned char c)
```

```
{
    if (c > 31 && c < 127)
        ft_putchar(c);
    else
        ft_putchar('.');
}
```

```
void ft_puthex(unsigned char c)
```

```
{
    char tab[16] = "0123456789abcdef";

    ft_putchar(tab[c / 16]);
    ft_putchar(tab[c % 16]);
}
```

```
void print_line(unsigned char *str, size_t start, size_t max)
```

```
{
    size_t i;
    i = start;
    while (i < start + 16 && i < max)
    {
        ft_puthex(str[i]);
        if (i % 2)
            ft_putchar(' ');
        i++;
    }
    while (i < start + 16)
    {
        ft_putchar(' ');
        ft_putchar(' ');
        if (i % 2)
            ft_putchar(' ');
        i++;
    }

    i = start;
    while(i < start + 16 && i < max)
    {
        ft_putascii(str[i]);
        i++;
    }
    ft_putchar('\n');
}
```

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

```
{
    unsigned char *str;
    size_t c;

    str = (unsigned char *)addr;
    c = 0;

    while (c < size)
    {
        print_line(str, c, size);
        c += 16;
    }
}
```