

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

```
void brainfuck(char *str)
{
    int tab[2048] = {0};
    int *ptr;
    int loop_count;

    ptr = tab;
    loop_count = 0;
    while (*str)
    {
        if (*str == '>')
            ptr++;
        else if (*str == '<')
            ptr--;
        else if (*str == '+')
            ++(*ptr);
        else if (*str == '-')
            --(*ptr);
        else if (*str == '.')
            write(1, ptr, 1);
        else if (*str == '[' && *ptr == 0)
        {
            loop_count = 1;
            while (loop_count != 0)
            {
                str++;
                if (*str == ']')
                    --loop_count;
                if (*str == '[')
                    ++loop_count;
            }
        }
        else if (*str == ']' && *ptr != 0)
        {
            loop_count = 1;
            while (loop_count != 0)
            {
                str--;
                if (*str == '[')
                    --loop_count;
                if (*str == ']')
                    ++loop_count;
            }
        }
        str++;
    }
}
```

```
int main(int argc, char *argv[])
{
    if (argc == 2)
        brainfuck(argv[1]);
    else
        write(1, "\n", 1);
    return (0);
}
```