

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

int main() {

    int fd[2] = {-1};

    printf("fd: %d %d\n", fd[0], fd[1]);

    int ret = pipe(fd);

    printf("fd: %d %d\n", fd[0], fd[1]);

    char buffer_in[20];
    ssize_t nread2 = read(0, buffer_in, 20);
    buffer_in[nread2] = '\0';

    ssize_t nwritten = write(fd[1], buffer_in,
        strlen(buffer_in) );
    if (-1 == nwritten) {
        perror("error");
    } else {
        printf("%zd bytes written\n", nwritten);
    }

    char buffer[20];
    strncpy(buffer, "This is a long sentence, much longer
        than 20 characters", 20);

    ssize_t nread = read(fd[0], buffer, 19);
    if (-1 == nread) {
        perror("error");
    } else {
        buffer[nread] = '\0';
        printf("nread: %zd\n", nread);
        printf("%s\n", buffer);
    }

    close(fd[0]);
    close(fd[1]);
    return 0;
}
```