```c
/*
  FUSE: Filesystem in Userspace
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  gcc -Wall hello.c `pkg-config fuse --cflags --libs` -o hello
*/

#define FUSE_USE_VERSION 26

#include <fuse.h>
#include <stdio.h>
#include <string.h>
#include <errno.h>
#include <fcntl.h>

static const char *hello_str = "Hello World!\n";
static const char *hello_path = "/hello";

static int hello_getattr(const char *path, struct stat *stbuf)
{
      int res = 0;

      memset(stbuf, 0, sizeof(struct stat));
      if (strcmp(path, "/") == 0) {
            stbuf->st_mode = S_IFDIR | 0755;
            stbuf->st_nlink = 2;
      } else if (strcmp(path, hello_path) == 0) {
            stbuf->st_mode = S_IFREG | 0444;
            stbuf->st_nlink = 1;
            stbuf->st_size = strlen(hello_str);
      } else
            res = -ENOENT;

      return res;
}

static int hello_readdir(const char *path, void *buf,
fuse_fill_dir_t filler,
                  off_t offset, struct fuse_file_info *fi)
{
      (void) offset;
      (void) fi;

      if (strcmp(path, "/") != 0)
            return -ENOENT;

      filler(buf, ".", NULL, 0);
      filler(buf, "..", NULL, 0);
      filler(buf, hello_path + 1, NULL, 0);

      return 0;
```

```c
}

static int hello_open(const char *path, struct fuse_file_info *fi)
{
      if (strcmp(path, hello_path) != 0)
            return -ENOENT;

      if ((fi->flags & 3) != O_RDONLY)
            return -EACCES;

      return 0;
}

static int hello_read(const char *path, char *buf, size_t size,
off_t offset,
                  struct fuse_file_info *fi)
{
      size_t len;
      (void) fi;
      if(strcmp(path, hello_path) != 0)
            return -ENOENT;

      len = strlen(hello_str);
      if (offset < len) {
            if (offset + size > len)
                  size = len - offset;
            memcpy(buf, hello_str + offset, size);
      } else
            size = 0;

      return size;
}

static struct fuse_operations hello_oper = {
      .getattr   = hello_getattr,
      .readdir   = hello_readdir,
      .open      = hello_open,
      .read      = hello_read,
};

int main(int argc, char *argv[])
{
      return fuse_main(argc, argv, &hello_oper, NULL);
}
```

SAMPLE I/O