

```
int main(int argc, char **argv)
{
    mqd_t queue;
    struct mq_attr attrs;
    char *msg_ptr;
    ssize_t recvd;
    size_t i;

    if (argc < 2){
        fprintf(stderr, "Usage: %s <queuename>\n", argv[0]);
        return 1;
    }

    queue = mq_open(argv[1], O_RDONLY | O_CREAT, S_IRUSR | S_IWUSR, NULL);
    if (queue == (mqd_t)-1){
        perror("mq_open");
        return 1;
    }

    if (mq_getattr(queue, &attrs) == -1){
        perror("mq_getattr");
        mq_close(queue);
        return 1;
    }

    msg_ptr = calloc(1, attrs.mq_msgsize);
    if (msg_ptr == NULL){
        perror("calloc for msg_ptr");
        mq_close(queue);
        return 1;
    }

    recvd = mq_receive(queue, msg_ptr, attrs.mq_msgsize, NULL);
    if (recvd == -1){
        perror("mq_receive");
        return 1;
    }

    printf("Message: ");
    for (i = 0; i < (size_t)recvd; i++)
        putchar(msg_ptr[i]);
    puts("");
}
```