

```

int main(int argc, char * argv[]){
    int fd, fd_pipe[2], n;
    char expression[MAXLINE];

    if(argc != 2){
        fprintf(stderr,"Usage: %s <destination>",argv[0]);
        exit(1);
    }

    pipe(fd_pipe);

    pid_t pid = fork();

    if(pid > 0){ // Parent
        close(fd_pipe[READ]);
        do{
            printf("Input expression (END = CTRL-D): ");

            if(fgets(expression, MAXLINE, stdin) == NULL) break;

            n = strlen(expression);
            write(fd_pipe[WRITE], expression, n);
            memset(expression,'\0',MAXLINE);

        } while(1);

        close(fd_pipe[WRITE]);
    }
    else if(pid == 0){ // Child
        close(fd_pipe[WRITE]);

        if((fd = open(argv[1], O_CREAT|O_WRONLY|O_APPEND,0644)) == -1){
            fprintf(stderr,"Error opening file in write only mode");
            exit(1);
        }

        dup2(fd,STDOUT_FILENO);
        dup2(fd_pipe[READ],STDIN_FILENO);
        execlp("bc", "bc", "-qi", NULL);
    }
    else{
        fprintf(stderr,"Fork error");
        exit(1);
    }
    return 0;
}

```