

- 문제
  - 메인함수 짜는 것과 쉘 상에서 삭제하는 함수 짜기
- 답
  - 메인함수

```
#include<fcntl.h>
#include<unistd.h>
#include<stdio.h>
#include<string.h>
#include<dirent.h>
#include<ftw.h>
#include<signal.h>
#include<stdlib.h>
#include<sys/types.h>
#include<sys/wait.h>
#include<sys/stat.h>
#include<sys/mman.h>
#include<sys/ipc.h>
#include<sys/msg.h>
#include<sys/sem.h>

#define BUFSIZE 512

int main(void){
    char in[50], *res[20]={0};
    int i, status, status2 = 0, background = 0, exit_flag = 0;
    pid_t pid,bid;

    while (1){
        printf("> ");
        gets(in);
        if (in[0]=='\0')
            continue;
        i=0;
        res[i]=strtok(in, " ");
        while (res[i]){
            res[++i]=strtok(NULL, " ");
        }

        if (strcmp(res[0], "exit")==0){
            if(background){
                wait(0);
                printf("BACKUP 종료 확인\n");
                exit(0);
            }
            exit(0);
        }

        else if (strcmp(res[0], "cd_m")==0){
            chdir(res[1]);
        }

        else if (strcmp(res[0], "backup_m")==0 && background == 0){
            background++;
        }
    }
}
```

```

        if ((pid=fork())==0){
            execvp(res[0],res);
            exit(0);
        }
    }
    else{
        if ((pid=fork())==0){
            execvp(res[0],res);
            exit(0);
        }
        else{
            waitpid(pid,&status,0);
        }
    }

    waitpid(0,&status2,WNOHANG);
    if(status2 == 8960){
        status2 = 0;
        background = 0;
        printf("BACKUP 종료 확인\n");
    }
}

return 0;
}

```

○ 삭제함수

```

#include <stdio.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <sys/wait.h>
#include <fcntl.h>
#include <unistd.h>
#include <dirent.h>
#include <string.h>
#include <time.h>
#include <ftw.h>
#include <stdlib.h>
#include <signal.h>

#define BUFSIZE 512

int main(int argc, char **argv){
    struct stat buf;

    stat(argv[1], &buf);

    if(S_ISREG(buf.st_mode)){
        remove(argv[1]);
    }
    else if(S_ISDIR(buf.st_mode)){
        DIR *dp;
        struct dirent *d;
        dp = opendir(argv[1]);
        while((d = readdir(dp))){

```

```
    char temp[BUFSIZE];
    strcpy(temp,argv[1]);
    strcat(temp,"/");
    if(d->d_name[0] != '.'){
        strcat(temp,d->d_name);
        remove(temp);
    }
}

remove(argv[1]);
}

exit(0);
}
```

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