

## desarchivage.c

```
#include <stdlib.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <stdint.h>
#include <fcntl.h>
#include <time.h>
#include <string.h>
#include <dirent.h>
#include "desarchivage.h"
#include "outils.h"
#include <math.h>
#include <unistd.h>
#include <stdbool.h>

struct dateModif{
    int day;
    int month;
    int year;
    int hour;
    int minute;
    int second;
};

#define True 1
#define False 0

void creationFichierArchive(char * name, char * file, int size)
{
    int fd = open(name,O_WRONLY|O_CREAT,0666);

    write(fd,file,size);

    close(fd);
}

int ifDossier(char * name)
{
    int i;
    for(i=0;i<sizeof(name);i++){
        if(name[i]=='/')
            return True;
    }
    return False;
}

void creerDossierArchive(char * name)
{
    mkdir(name,0766);
}

int createFolders(char *path)
{
    char c;
    int i = 0;
```

```

int fileFound = 0;
char directory[100];
int j = 0;
int fd;
while(fileFound == 0){
    do{
        directory[j] = path[i];
        c = directory[j];
        i++; j++;
    } while(directory[j-1] != '/' && c != '\0');
    if( c == '/')
        fileFound = 1;
    if(fileFound == 0)
        mkdir(directory,0766);
    else{
        fd = open(directory, O_WRONLY | O_CREAT ,0766);
        return fd;
    }
}
}

```

```

void extract(char * archive)
{
    int fd = open(archive,O_RDONLY);
    int size;
    char * file;
    char * name;
    dateModif date;
    char c;
    int i = 0;
    int fdF;
    while (read(fd,&c,1) >0){ //test lecture possible
        name = getNextFileName(fd);
        size = getNextFileSize(fd);
        date =lastModifedArchive(fd);
        file = readNextFile(fd,size);
        if(ifDossier(name))
            fdF = createFolders(name);
        else
            fdF = open(name, O_WRONLY | O_CREAT ,0766);
        write(fdF, &file, (strlen(file)-1));
    }
    close(fd);
}

```