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What is a Directory Entry?

| #include <stdio.h> #include <stdlib.h> #include <string.h> #include <stdbool.h> #include <time.h>  typedef enum {  PDF,  HTML,  GIF,  JPEG,  TXT, } Type;   typedef struct Directory {  char name[64]; // name  int inode; // id: inode contains all metadata.   Type type;// type  int size; // size  int location; // location  bool directory; // is it a directory  time\_t time;// date that file was created or accessed } dir;  int main() {   dir \*file = malloc(sizeof(dir));  strcpy(file->name, "name");  file->inode = 1010;  file->type = PDF;  file->size = 256;  file->location = 0;  file->directory = false;  file->time = time(NULL);   printf("name: %s\n", file->name);  printf("id: %d\n", file->inode);  switch(file->type) {   case PDF: printf("Type: PDF\n"); break;   case HTML: printf("Type: HTML\n"); break;   case GIF: printf("Type: GIF\n"); break;   case JPEG: printf("Type: JPEG\n"); break;   case TXT: printf("Type: TXT\n"); break;  }  printf("size: %d\n", file->size);  printf("location: %d\n", file->location);  printf("Directory: %s\n", file->directory ? "true" : "false");  printf("time/date: %s\n", ctime(&file->time));   free(file);  return 0; } |
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Output:

