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// HARVARD CS50 Week 4 - Recover - Implement a program that recovers
JPEGs from a forensic image on a memory card
// PSEUDO CODE
// 1. Open memory card
// --> FILE *f = fopen(filename, "r");
// 2. Repeat until end of card
//
      Read 512 bytes into a buffer
      --> Read files: fread(ata, size, number, inptr);
//
      --> where... data = ointer to whereto store read data, size =
size of each element to read, number = number of elements to read,
inptr = FILE *to read from
      --> Buffer Bitwise Arithmetic --> (buffer[3] & 0xe0) == 0xe0
//
      If start of new JPEG
//
      --> Look for beginning of a JPEG --> 1st byte = 0xff, 2nd byte =
0xd8, 3rd byte = 0xff, 4th byte = 0xe...
//
       If first JPEG
//
       --> Start writing
//
       --> ###.jpg --> sprintf(filename, "%03i.jpg",2);
       --> FILE *img = fopen(filename, "w");
//
//
       --> fwrite(data, size, number, outptr);
//
       Else
      If already found JPEG
//
//
        Keep writing
        --> Last byte = 0xe0, 0xe1, 0xe2, ..., 0exf
//
// 3. Close remaining files
// include libarries
#include <stdio.h>
#include <stdlib.h>
int main(int argc, char *argv∏)
{
    // check if commandline entry is correct and file name specified
    // 1. open memory card & display error message if not opening
properly
```

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//create vars and allocate memory
// use of malloc
    // if new JPEG found...
       // close previous JPEG if it exists
       // specify filename
       // open new image file
       // check if JPEG created successfully
   // if any JPEG exists writes on currently opened file
```

