

```

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There is NO WARRANTY, to the extent permitted by law.
Type "show copying" and "show warranty" for details.
This GDB was configured as "x86_64-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>.
Find the GDB manual and other documentation resources online at:
  <http://www.gnu.org/software/gdb/documentation/>.

For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from out...
(gdb) r puppyP6.ppm file.ppm
Starting program: /home/gmcroy/Desktop/Lab5/out puppyP6.ppm file.ppm
[Thread debugging using libthread_db enabled]
Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".

Program received signal SIGSEGV, Segmentation fault.
0x00007ffff78954b5 in __vfscanf_internal (s=<optimized out>,
    format=<optimized out>, argptr=argptr@entry=0x7ffffffffffe390,
    mode_flags=mode_flags@entry=2) at vfscanf-internal.c:1895
1895 vfscanf-internal.c: No such file or directory.
(gdb) █

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1895 vfscanf-internal.c: No such file or directory.
(gdb) break functions.c : 7
Breakpoint 1 at 0x5555555537d: file functions.c, line 9.
(gdb) █

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Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".

Program received signal SIGSEGV, Segmentation fault.
0x00005555555555d0 in write_p6 (out_file=0x555555559f20, image=0x0)
    at functions.c:45
45      header_t header = image->header;
(gdb) up
#1 0x000055555555552f in main (argc=3, argv=0x7fffffffe628) at lab5.c:23
23      write_p6(out_file1, image);
(gdb) up
Initial frame selected; you cannot go up.
(gdb)

```

```

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45      header_t header = image->header;
(gdb)

```

```

fscanf(image_file, "%s %d %d %d ",
        //no ampersand
        header.MAGIC_NUMBER, &header.WIDTH, &header.HEIGHT, &header.MAX_COLOR);

```

Error was caused from missing ampersands

```
header_t header = read_header(image_file);  
image_t * image = NULL;  
read_p6(image_file, header);  
//set image to read p6
```

```
return image;
```

Read_p6 returns a image pointer that's never assigned to anything. Image is set to null so function just returns null. Then null reference access inside write_p6();