

# C Error Handling Questions

**Sayak Haldar**  
IEST, Shibpur

**1) Which of the following causes an error?**

- a) Trying to read a file that doesn't exist
- b) Inability to write data in a file
- c) Failure to allocate memory with the help of malloc
- d) All of the mentioned

**2) What is the purpose of the function?**

**int ferror(FILE \*fp)**

- a) They check for input errors
- b) They check for output errors
- c) They check for all types of errors
- d) They check for error in accessing the file

**3) stderr is similar to?**

- a) stdin
- b) stdout
- c) Both stdout and stdin
- d) None of the mentioned

**4) What happens when we use?**

**fprintf(stderr, "error: could not open file\n");**

- a) The diagnostic output is directly displayed in the output
- b) The diagnostic output is pipelined to the output file
- c) The line which caused error is compiled again
- d) The program is immediately aborted

**5) Which of the following function can be used to terminate the main function from another function safely?**

- a) return (expr);
- b) exit(expr);
- c) abort();
- d) Both b and c

**6) What is the output of this C code if there is no error in stream fp?**

1. `#include <stdio.h>`
2. `int main()`
3. `{`
4. `FILE *fp;`
5. `fp = fopen("newfile", "w");`
6. `printf("%d\n", ferror(fp));`

7.       return 0;

8.       }

- a) Compilation error
- b) 0
- c) 1
- d) Any nonzero value

**7) Within main, return expr statement is equivalent to.**

- a) abort(expr)
- b) exit(expr)
- c) ferror(expr)
- d) None of the mentioned

**8) What is the output of this C code?**

```
1.  #include <stdio.h>

2.  int main()

3.  {

4.      FILE *fp;

5.      char c;

6.      int n = 0;

7.      fp = fopen("newfile1.txt", "r");

8.      while (!feof(fp))

9.      {

10.         c = getc(fp);

11.         putc(c, stdout);

12.     }

13.     return 0;

14. }
```

- a) Compilation error
- b) Prints to the screen content of newfile1.txt completely

- c) Prints to the screen some contents of newfile1.txt
- d) None of the mentioned

**9) What is the output of this C code?**

```
1.  #include <stdio.h>
2.  int main()
3.  {
4.      FILE *fp = stdout;
5.      stderr = fp;
6.      fprintf(stderr, "%s", "hello");
7.      return 0;
8.  }
```

- a) Compilation error
- b) hello
- c) Undefined behaviour
- d) Depends on the standard

**10) What is the output of this C code?**

```
1.  #include <stdio.h>
2.  int main()
3.  {
4.      char buf[12];
5.      stderr = stdin;
6.      fscanf(stderr, "%s", buf);
7.      printf("%s\n", buf);
8.      return 0;
9.  }
```

- a) Compilation error

- b) Undefined behaviour
- c) Whatever user types
- d) None of the mentioned

**References:**

1. <http://www.sanfoundry.com/c-interview-questions-answers/>
2. <http://stackoverflow.com/>