

```
1.  /**
2.   * cp.c
3.   *
4.   * week 6 section
5.   * fall 2013
6.   *
7.   * copy a file
8.   */
9.
10. #include <stdint.h>
11. #include <stdio.h>
12.
13. typedef uint8_t BYTE;
14.
15. int main(int argc, char* argv[])
16. {
17.     // two and only two command-line arguments
18.     if (argc != 3)
19.     {
20.         printf("Usage: ./cp src dst\n");
21.         return 1;
22.     }
23.
24.     // remember filenames
25.     char* src = argv[1];
26.     char* dst = argv[2];
27.
28.     // open input file
29.     FILE* srcptr = fopen(src, "r");
30.     if (srcptr == NULL)
31.     {
32.         printf("Could not open %s.\n", src);
33.         return 2;
34.     }
35.
36.     // open output file
37.     FILE* dstptr = fopen(dst, "w");
38.     if (dstptr == NULL)
39.     {
40.         fclose(srcptr);
41.         fprintf(stderr, "Could not create %s.\n", dst);
42.         return 3;
43.     }
44.
45.     // copy src into dest a byte at a time
46.     BYTE byte;
47.     while (fread(&byte, sizeof(BYTE), 1, srcptr))
48.     {
```

```
49.     fwrite(&byte, sizeof(BYTE), 1, dstptr);
50. }
51.
52. // close infile
53. fclose(srcptr);
54.
55. // close outfile
56. fclose(dstptr);
57.
58. // that's all folks
59. return 0;
60. }
```