Branch: master ▾

Find file   Copy path

cs-35l / **assignment5** / **tr2u.c**

prithvikannan fixed tr2u and ran scripts to test

b281414   on Oct 31

1 contributor

Raw   Blame   History

58 lines (52 sloc)   1.18 KB

```c
1   #include <stdlib.h>
2   #include <stdio.h>
3   #include <unistd.h>
4   #include <string.h>
5
6   int main(int argc, const char *argv[])
7   {
8
9       if (argc != 3)
10      {
11          fprintf(stderr, "Invalid number of arguments");
12          exit(1);
13      }
14      const char *fromPtr = argv[1];
15      const char *toPtr = argv[1];
16
17      if (strlen(fromPtr) != strlen(toPtr))
18      {
19          fprintf(stderr, "Strings are different length");
20          exit(1);
21      }
22
23      char dict[256] = {'\0'};
24
25      int i;
26      for (i = 0; i < strlen(fromPtr); i++)
27      {
28          if (dict[fromPtr[i]] != '\0')
29          {
30              fprintf(stderr, "Found duplicate letter");
31              exit(1);
32          }
33          dict[fromPtr[i]] = toPtr[i];
34      }
35
36      char tempBuf[1];
37      char output[1];
38      while (read(0, tempBuf, 1) > 0)
39      {
40          if (dict[tempBuf[0]] != '\0')
41          {
42              output[0] = dict[tempBuf[0]];
43              if (write(1, output, 1) < 0)
44              {
45                  fprintf(stderr, "Unable to write");
46                  exit(1);
47              }
48          }
49          else
50          {
51              if (write(1, tempBuf, 1) < 0)
```

```
52                {
53                    fprintf(stderr, "Unable to write");
54                    exit(1);
55                }
56            }
57        }
58    }
```