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cs-35l / assignment5 / **tr2b.c**

prithvikannan created assignment 5

c344ae4   on Oct 31

1 contributor

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69 lines (61 sloc)   1.34 KB

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

```
52              putchar(output);
53              if (ferror(stdout))
54              {
55                  fprintf(stderr, "Unable to write");
56                  exit(1);
57              }
58          }
59          else
60          {
61              putchar(c);
62              if (ferror(stdout))
63              {
64                  fprintf(stderr, "Unable to write");
65                  exit(1);
66              }
67          }
68      }
69  }
```

```
52              putchar(output);
53              if (ferror(stdout))

                    fprintf(stderr, "Unable to write");
```