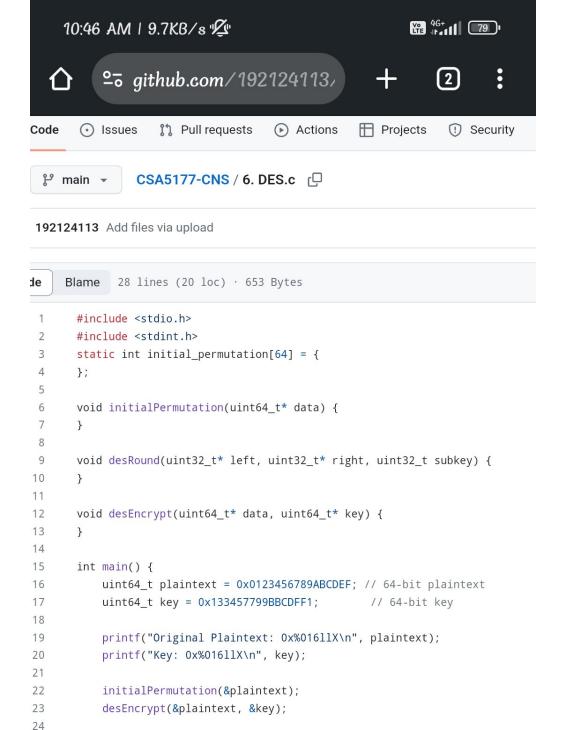


```
CSA5177-CNS / 5. Railfence.c 📮
    ழ main ▼
                                                                                            (
192124113 Add files via upload
Code
        Blame 53 lines (41 loc) · 1.16 KB
         #include <stdio.h>
    1
    2
          #include <string.h>
          void encryptRailFence(char *message, int rails) {
    3
    4
              int messageLength = strlen(message);
    5
              char railFence[rails][messageLength];
    6
    8
              for (int i = 0; i < rails; i++) {</pre>
    9
                  for (int j = 0; j < messageLength; <math>j++) {
                      railFence[i][j] = ' ';
   10
   11
                  }
   12
              }
   13
              int row = 0;
   14
              int direction = 1; // 1 for down, -1 for up
   15
   16
              for (int i = 0; i < messageLength; i++) {</pre>
   17
                  railFence[row][i] = message[i];
   18
   19
                  if (row == 0) {
   20
                      direction = 1;
   21
                  } else if (row == rails - 1) {
   22
   23
                      direction = -1;
   24
   25
                  row += direction;
   26
   27
              }
   28
   29
              printf("Encrypted Message: ");
              for (int i = 0; i < rails; i++) {</pre>
   30
   31
                  for (int j = 0; j < messageLength; <math>j++) {
   32
                      if (railFence[i][j] != ' ') {
   33
                          printf("%c", railFence[i][j]);
   34
   35
                  }
   36
              }
   37
              printf("\n");
   38
          }
   39
   40
          int main() {
   41
             char message[100];
   42
              int rails;
   43
   44
              printf("Enter the message to encrypt: ");
   45
              gets(message);
   46
   47
              printf("Enter the number of rails: ");
   48
              scanf("%d", &rails);
   49
   50
              encryptRailFence(message, rails);
   51
   52
              return 0;
   53
          }
```



printf("Encrypted Text: 0x%016llX\n", plaintext);

25

26

2728

}

return 0;

