

```

1 function fleissner_main()
2
3     while true
4
5         println("Введите Ш для шифрования, Р для расшифрования, В для выхода")
6
7         print(">>> ")
8
9         cmd = lowercase(strip(readline()))
10
11
12         cmd == "В" && (println("Выход"); break)
13
14         cmd in ["ш", "р"] || (println("Неверная команда"); continue)
15
16
17         print("Введите текст: ")
18
19         text = readline()
20
21         print("Введите пароль (4 символа): ")
22
23         password = readline()
24
25
26         clean_chars = collect(replace(uppercase(text), " " => ""))
27
28         pass_chars = collect(uppercase(password))
29
30         k = 2
31
32
33         size_2k = 2k
34
35         grille = falses(size_2k, size_2k)
36
37         for i in 1:k, j in 1:k
38             grille[i, j] = grille[i, k+j] = grille[k+i, j] = grille[k+i, k+j] = true
39         end
40
41
42         total = size_2k^2
43
44         length(clean_chars) < total && append!(clean_chars, fill('A', total -
length(clean_chars)))
45
46         table, idx, mask = fill(' ', size_2k, size_2k), 1, copy(grille)
47
48
49         for _ in 1:4
50
51             for i in 1:size_2k, j in 1:size_2k
52
53                 mask[i,j] && idx <= length(clean_chars) && (table[i,j] =
clean_chars[idx]; idx += 1)
54             end
55
56             mask = reverse(mask, dims=1)'
57         end
58

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59
60     sorted_cols = sort(1:length(pass_chars), by=i -> pass_chars[i])
61
62     result = join([table[i,j] for j in sorted_cols for i in 1:size_2k])
63
64
65     println("Результат: $result")
66
67     println("-"^50)
68 end
69 end
70
71
72 fleissner_main()
```