

```

1 function columnar_main()
2
3
4     while true
5
6         println("Введите Ш для шифрования, Р для расшифрования, В для выхода")
7         print(">>> ")
8         cmd = lowercase(strip(readline()))
9         cmd == "В" && (println("Выход"));
10    break)
11
12    cmd in ["ш", "р"] || (println("Неверная команда"); continue)
13
14    print("Введите текст: ")
15    text = readline()
16    print("Введите пароль: ")
17    password = readline()
18    clean_text = replace(uppercase(text), " " => "")
19
20    pass_chars = collect(uppercase(password))
21
22    n, m = length(pass_chars), ceil(Int, length(clean_text) / length(pass_chars))
23
24
25    padded = clean_text * "A"^(m*n - length(clean_text))
26
27    table = reshape(collect(padded), (m, n))
28
29
30
31    column_pairs = [(pass_chars[i], i) for i in 1:length(pass_chars)]
32
33    sort!(column_pairs, by = x -> x[1])
34
35    sorted_cols = [idx for (char, idx) in column_pairs]
36
37
38    result = join([table[i,j] for j in sorted_cols for i in 1:m])
39
40
41    println("Результат: $result")
42
43    println("-"^50)
44    end
45 end
46
47
48 columnar_main()
49

```