



(javaSc

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10-masala. ABFGX CODING

ADFGX shifrlash juda mashhur kriptografik vosita bo'lib, aslida o'zgartirilgan Polybius maydonidir. Jadvalda koordinatalar sifatida raqamlar bo'lishidan ko'ra, unda quyidagi harflar mavjud:

A, D, F, G, X

Siz qilishingiz kerak bo'lgan yagona narsa satrni ADFGX formatiga shifrlash va parolini ochishdir yoki shifrlangan ma'lumotni tushunarli holga keltirish.

```
A D F G X
A  b c h i g
D  k l n m o
F  q p r s t -> square (PLEASE NOTE, j SHOULD BE TREATED AS i)
G  u v w x y
X  z a d e f
```

bid(0);

Foydalanuvchi tomonidan shifrlangan ma'lumot va jadvaldagi harflar ketma-ketligi beriladi. Masalan,

adfgx_encrypt("helloworld", "bchigklnmoqprstuvwxyzadef")

```
A D F G X
A  b c h i g
D  k l n m o
F  q p r s t -> square (PLEASE NOTE, j SHOULD BE TREATED AS i)
G  u v w x y
X  z a d e f

"helloworld" -> plaintext

EVALUATES TO:

      F
      -> "AF"
A      h
-----
      G
      -> "XG"
X      e

AND SO FORTH...

#Results in:

adfgx_encrypt("helloworld", "bchigklnmoqprstuvwxyzadef")
==
"AFXGDDDDXGFDXFFDDXF"
```

Sizning vazifangiz adfgx_encrypt() va adfgx_decrypt() funktsiyalarini yaratish.