

Online C Compiler - Programiz

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deepapreya-h/CNS

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programiz.com/c-programming/online-compiler/

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Verify it's you

Learn DSA the way it should be – with step-by-step code visualization. Try now!

Programiz C Online Compiler

Programiz PRO

main.c

Run

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Output

Clear

```
1 #include <stdio.h>
2 #include <string.h>
3 #include <ctype.h>
4 int modInverse(int a) {
5     a = a % 26;
6     for (int x = 1; x < 26; x++)
7         if ((a * x) % 26 == 1)
8             return x;
9     return -1;
10 }
11 char decryptChar(char ch, int a, int b) {
12     if (!isalpha(ch)) return ch;
13     ch = toupper(ch);
14     int y = ch - 'A';
15     int a_inv = modInverse(a);
16     if (a_inv == -1) return '?';
17     int p = (a_inv * (y - b + 26)) % 26;
18     return p + 'A';
19 }
20 int solveKey(int c1, int c2, int p1, int p2, int* a, int* b) {
21     int diffP = (p1 - p2 + 26) % 26;
22     int diffC = (c1 - c2 + 26) % 26;
23     int inv = modInverse(diffP);
24     if (inv == -1) return 0;
```

Recovered Key: a = 3, b = 15
Decrypted Text: ETETETETETETETETET

=== Code Execution Successful ===

33°C Mostly cloudy

Search

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