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#include<bits/stdc++.h>
using namespace std;
int main(){
    int m=5;
    string str = "enemy attacks tonight";
    string plaintext = "";
    int key[2][5] = \{\{3,1,4,5,2\},\{1,2,3,4,5\}\};
    for (int i = 0; i < str.length(); i++)
        if(str[i] == 32){
            continue;
        }
        else{
            plaintext += str[i];
    }
    int y1, y2;
    cout<<"Plaintext: "<<plaintext<<endl;</pre>
    string block="";
    string block new="";
    string Encry="";
    int start=0;
    int end=5;
    int count = 0;
    char new block[5];
    if(plaintext.length()%5 != 0){
       while (plaintext.length()%5 != 0)
           plaintext += "x";
    while (end<=plaintext.length())</pre>
        block="";
        for (int i = start; i < end; i++)
            block += plaintext[i];
        }
        cout<<block<<" : ";</pre>
        block new= block;
        for (int j = 0; j < 5; j++)
            y1 = key[0][j];
            y2 = key[1][j];
            block_new[y2-1] = block[y1-1];
        cout<<block new<<endl;</pre>
        for (int k=0; k<5; k++) {
            Encry += block new[k];
        start = start + 5;
        end = end + 5;
```

```
start=0;
    end=5;
    cout<<"Encrypted Text: "<<Encry<<endl;</pre>
    string decry="";
    while (end<=Encry.length())</pre>
        block="";
        for (int i = start; i < end; i++)
         {
             block += Encry[i];
        }
        cout<<block<<" :";</pre>
        block new= block;
        for (int j = 0; j < 5; j++)
             y1 = key[0][j];
             y2 = key[1][j];
             block_new[y1-1] = block[y2-1];
        }
        cout<<block new<<endl;</pre>
        for (int k=0; k<5; k++) {
             decry += block_new[k];
        start = start + 5;
        end = end + 5;
    cout<<"\nDecrypted Text: "<<decry<<endl;</pre>
    return 0;
}
```