

C example

C example

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Sunday, 7 April 2013

Playfair Cipher in C

Hello friends, I am very happy to write my first post about implementation of **Playfair cipher** algorithm in c.

For any query regarding c/c++ feel free to contact me on khimanichirag@gmail.com. I try my best to solve it.

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<graphics.h>
void line(int a)
{
    int i;
    printf("\n");
    for(i=0;i<a;i++)
    {
        printf(" ");
    }
    printf("\n");
}
char s[30];
void main()
{
    char c[27],k[30],temp[40],matrix[5][5],first,second;
    int i,index,j,t,t1,p,p1,gd,gm;
    initgraph(&gm,&gd,"c:\\tc\\bgi");
    clrscr();
    cleardevice();

//-----ABCD in c[]-----
    setcolor(2);
    outtextxy(400,460,"Prepared By:Khimani Chirag");
    setcolor(2);
    outtextxy(150,10,"Welcome To Playfair Cipher Encryption");
    for(i=97;i<=122;i++)
    {
        c[i-97]=i;
    }

//-----
    printf("\n\n");
    line(50);
    printf("enter the plain text: ");
    gets(s);
    printf("\nenter key for playfair cipher: ");
    gets(k);
    line(50);

//-----put c[]<-" when key-----
    for(i=0;k[i]!='\0';i++)
    {
        index=k[i]-97;
        if(c[index]=="")
        {
            k[i]="";
        }
        else
        {
            c[index]="";
        }
    }

//-----put key[] in variable-----
    i=0;
    j=0;
    while(k[i]!='\0')
    {
        if(k[i]=="")
        {
            temp[j]=k[i];
            j++;
        }
        i++;
    }

//-----put c[] in temp variable-----
    i=0;
    while(c[i]!='\0')
    {
        if(c[i]==" " && c[j]==" ")
        {
            temp[j]=c[i];
            j++;
        }
        i++;
    }

//-----matrix printing-----
    t=0;
    for(i=0;i<5;i++)
    {
```

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```

        printf("** ");
        for(j=0;j<5;j++)
        {
            printf("%c ",temp[i]);
            matrix[i][j]=temp[i];
            t++;
        }
        printf(" ");
        if(i==4)
            printf("\n");
    }
    line(20);
    printf("\nyour cipher text is: ");
}

//
i=0;
if(strlen(s)%2!=0)
{
    while(s[i]!='\0')
    {
        i++;
    }
    s[i]='\0';
    s[i+1]='\0';
}
for(index=0;index<strlen(s);index+=2)
{
    first=s[index];
    second=s[index+1];
    for(i=0;i<5;i++)
    {
        for(j=0;j<5;j++)
        {
            if(matrix[i][j]==first)
            {
                t=i;
                t1=j;
            }
            if(matrix[i][j]==second)
            {
                p=i;
                p1=j;
            }
        }
    }
    if(p==t)
    {
        if(p1==4)
        {
            p1=-1;
        }
        if(t1==4)
        {
            t1=-1;
        }
        printf("%c%c",matrix[t][t1+1],matrix[p][p1+1]);
    }
    else if(p1==t1)
    {
        if(p==4)
        {
            p=-1;
        }
        if(t==4)
        {
            t=-1;
        }
        printf("%c%c",matrix[t+1][t1],matrix[p+1][p1]);
    }
    else
    {
        printf("%c%c",matrix[t][p1],matrix[p][t1]);
    }
}
getch();
}

```

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BalG Lal Shrestha 1 year ago
thank you for this encryption. It has help me a lot in my assignment but i m facing problem in decryption if possible just post that also



Rushi Keshriya 1 year ago
Thank you. Hope I will get more help about C from your blog.



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waah khimaani waah... hasti ho baaki...

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