

WeChall Training: Crypto-Caesar WriteUp

原创

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题目链接: <http://www.wechall.net/challenge/training/crypto/caesar/index.php>

凯撒密码其实就是按照字母表顺序, 通过将字母前移或者后移一定的距离, 来对原文进行加密

可能是将原字母向右移动 n 位, 也可能是将原字母向左移动 n 位

因此我们就有了下面这段代码:

```
#include<stdio.h>
#include<string.h>

int main()
{
    char a[95];
    char aa[95] = "BPM YCQKS JZWEV NWF RCUXA WDMZ BPM TIHG LWO WN KIMAIZ IVL GWCZ CVQYCM AWTCBQWV QA XO";
    //规定向右移为正, 我们先假设加密的时候是向右移动若干位
    //因此我们解密的时候就是向左移动, 这时候是-n
    //运行完之后, 如果没有找到答案, 就换成+n
    for(int n = 1; n<=25; n++)
    {
        printf("%d\n", n);
        memcpy(a, aa, 95);
        for(int i=0; i<94; i++)
        {
            if(a[i]!=' ')
            {
                a[i]=((a[i]-65-n)%26+26)%26+65;
            }
        }
        for(int i=0; i<94; i++)
        {
            printf("%c", a[i]);
        }
        printf("\n");
    }
    return 0;
}
```

结果:

```
C:\Users\include_heqile\Documents\Untitled1.exe
1
AOL XBPJR IYUDU MUE QBTWZ UCLY AOL SHGF KUN UM JHLZHY HUK FUBY BUPXBL ZUSBAPUU PZ WNONPKZTOMLU
2
ZNK WAOIQ HXUCT LUD PASUY UBKX ZNK RGFE JUM UL IGKYGX GTJ EUAX ATOWAK YURAZOUT OY UMMMOJYSNLKU
3
YMJ UZNHP GWIBS KTC OZRUX TAJW YMJ QFED IIL TK HFJXFW PSI DTZW ZSMUZJ XTQZYNTS NX ULMLNIXRMKJT
4
XLI UYMG0 FUSAR JSB NYQTW SZIU XLI PEDC HSK SJ GEIWEU ERH CSYU YRMUYI WSPYXMSR MW TKLKMHWQLJIS
5
WKH TXLFM EURZQ IRA MXPSU RYHU WKH ODCB GRJ RI FDHUUU DQG BRXU XQLTXH UROXWLRQ LU SJKJLGUPKIHR
6
UJG SWKEM DTQYP HQZ LWORU QXGT UJG NCBA FQI QH ECGUCT CPF AQWT WPKSWG UQNWUKQP KU RIJIKFUOJHGQ
7
UIF RUJDL CSPX0 GPY KUNQT PWFS UIF MBAZ EPH PG DBFTBS BOE ZPUS UOJRUF TPMUJPO JT QHIHJETNIGFP
THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG OF CAESAR AND YOUR UNIQUE SOLUTION IS PGHGIDSMHFEC
8
SGD PTHBJ AQNUM ENW ITLOR NUDQ SGD KZYX CNF NE BZDRZQ ZMC XNTQ TMHPTD RNKTSNMM HR OFGFHCRMGEDN
9
RFC OSGAI ZPMUL DMU HSKNQ MTCP RFC JYXW BME MD AYCQYP YLB WMSP SLGOSC QMJSRGML GQ NEFEGBQKFDKM
10
QEB NRFZH YOLTK CLU GRJMP LSBO QEB IXWU ALD LC ZXBPX0 XKA ULRO RKFNRB PLIRQFLK FP MDEDFAPJECBL
11
PDA MQEYG XNKSJ BKT FQILO KRAN PDA HWUU ZKC KB YWAOWN WJZ UKQN QJEMQA OKHQPEKJ EO LCDCEZOIDBAK
12
OCZ LPDXF WMJRI AJS EPHKN JQZM OCZ GUUT YJB JA XUZNUM UIY TJPM PIDLPZ NJGPODJI DN KBCBDYNHCAZJ
13
NBY KOCWE ULIQH ZIR DOGJM IPYL NBY FUTS XIA IZ WUYMUL UHX SIOL OHCKOY MIFONCIH CM JABACKMBZYYI
14
MAX JNBUD UKHPG YHQ CNFIL HOXK MAX ETSR WHZ HY UTXLTK TGW RHNK NGBJNX LHENMBHG BL IZAZBWLPAKXK
15
LZW IMAUC TJGOF XGP BMEHK GNWJ LZW DSRQ UGY GX USWKSJ SFU QGMJ MFAIMW KGDMLAGF AK HYZYAUKEZXWG
16
KYU HLZTB SIFNE WFO ALDGJ FMUI KYU CRQP UFX FW TRUJRI REU PFLI LEZHLU JFCLKZFE ZJ GXYXZUJDYWWF
17
JXU GKYSR RHEMD UEN ZKCFI ELUH JXU BQPO TEW EU SQUIQH QDT OEKH KDYGKU IEBKJYED YI FWXWYTICKXUUE
18
IWT FJXRZ QGDLC UDM YJBEH DKTG IWT APON SDU DU RPTHPG PCS NDJG JCXFJT HDAJIXDC XH EUWUXSHBWUID
19
HUS EIWQY PFCKB TCL XIADG CJSF HUS ZONM RCU CT QOSGOF OBR MCIF IBWEIS GCZIHWCB WG DUUUWRGAUTSC
20
GUR DHUPX OEBJA SBK WHZCF BIRE GUR YNML QBT BS PNRFNE NAQ LBHE HAUDHR FBYHGUBA UF CTUTUQFZUSRB
21
FTQ CGUOW NDAIZ RAJ UGYBE AHQD FTQ XMLK PAS AR OMQEMD MZP KAGD GZUCGQ EAXGFUAZ UE BSTSUPEYTRQA
22
ESP BFTNU MCZHY QZI UFXAD ZGPC ESP WLKJ OZR ZQ NLPDLC LY0 JZFC FYTBFP DZWFETZY TD ARSRIODXSQPZ
23
DRO AESMU LBYGX PYH TEWZC YFOB DRO UKJI NYQ YP MKOCKB KXN IYEB EXSAEO CYUEDSYX SC ZQRQSNCRWPOY
24
CQN ZDRLT KAXFW OXG SDUYB XENA CQN UJIH MXP X0 LJNBJA JMM HXDA DWRZDN BXUDCRXW RB YPQPRMBUQONX
Process returned 0 (0x0) execution time : 0.997 s
Press any key to continue. https://blog.csdn.net/include_heqile
```