

Hgame2023week1-gydybnc

re

easyasm

异或0x33，直接异或就完了

easyenc

```
#include <stdio.h>
#include <stdlib.h>
int main() {
    char enflag[41]={0x04, 0xFF, 0xFD, 0x09, 0x01, 0xF3, 0xB0, 0x00, 0x00, 0x05, 0xF0,
0xAD, 0x07, 0x06, 0x17, 0x05, 0xEB, 0x17, 0xFD, 0x17, 0xEA, 0x01, 0xEE, 0x01, 0xEA,
0xB1, 0x05, 0xFA, 0x08, 0x01, 0x17, 0xAC, 0xEC, 0x01, 0xEA, 0xFD, 0xF0, 0x05, 0x07,
0x06, 0xF9};
    for (int i =0;i<=41;i++){
        enflag[i]+=0x56;
        enflag[i]^=0x32;
        printf("%c",enflag[i]);
    }

    return 0;
}
```

a_cup_of_tea

魔改tea

```
#include <stdio.h>
#include <stdint.h>
#include <string.h>
void decrypt(uint32_t *v,uint32_t *k){

    uint32_t delta=0x543210DD; /*akeyscheduleconstant*/

    uint32_t v0= v[0],v1=v[1], i;/*setup*/

    uint32_t sum = 0;
    for (int i=0 ;i<32;i++){
        sum-= delta;
    }
    uint32_t k0=k[0],k1=k[1],k2=k[2],k3=k[3];/*cachekey*/
```

```

for(i=0;i<32;i++){
    /*basiccyclestart*/
    v1-= ((v0<<4)+k2) ^ (v0+sum) ^ ((v0>>5)+k3);
    v0-=((v1<<4)+k0)^(v1+sum) ^ ((v1>>5)+k1);
    sum += delta;
}/*endcycle*/
v[0]=v0;
v[1]=v1;
}

int main(){
    uint32_t k[4] = {0x12345678, 0x23456789, 0x34567890, 0x45678901};
    uint32_t e[]={0x2E63829D, 0xC14E400F, 0x9B39BFB9, 0x5A1F8B14, 0x61886DDE,
0x6565C6CF, 0x9F064F64, 0x236A43F6};
    int i;
    uint32_t v[2];
    for(i=0;i<8;i+=2){
        v[0]=e[i];
        v[1]=e[i+1];
        decrypt(v,k);
        printf("%c%c%c%c",v[0] &0xFF,(v[0]>>8) &0xFF,(v[0]>>16) &0xFF,(v[0]>>24)
)&0xFF);
        printf("%c%c%c%c",v[1] &0xFF,(v[1]>>8) &0xFF,(v[1]>>16) &0xFF,(v[1]>>24)
)&0xFF);
    }

    return 0;
}

```

encode

```

#include <stdlib.h>
int main() {
    int enflag[100]={0x00000008, 0x00000006, 0x00000007, 0x00000006, 0x00000001,
0x00000006, 0x0000000D, 0x00000006, 0x00000005, 0x00000006, 0x0000000B, 0x00000007,
0x00000005, 0x00000006, 0x0000000E, 0x00000006, 0x00000003, 0x00000006, 0x0000000F,
0x00000006, 0x00000004, 0x00000006, 0x00000005, 0x00000006, 0x0000000F, 0x00000005,
0x00000009, 0x00000006, 0x00000003, 0x00000007, 0x0000000F, 0x00000005, 0x00000005,
0x00000006, 0x00000001, 0x00000006, 0x00000003, 0x00000007, 0x00000009, 0x00000007,
0x0000000F, 0x00000005, 0x00000006, 0x00000006, 0x0000000F, 0x00000006, 0x00000002,
0x00000007, 0x0000000F, 0x00000005, 0x00000001, 0x00000006, 0x0000000F, 0x00000005,
0x00000002, 0x00000007, 0x00000005, 0x00000006, 0x00000006, 0x00000007, 0x00000005,
0x00000006, 0x00000002, 0x00000007, 0x00000003, 0x00000007, 0x00000005, 0x00000006,
0x0000000F, 0x00000005, 0x00000005, 0x00000006, 0x0000000E, 0x00000006, 0x00000007,
0x00000006, 0x00000009, 0x00000006, 0x0000000E, 0x00000006, 0x00000005, 0x00000006,
0x00000005, 0x00000006, 0x00000002, 0x00000007, 0x0000000D, 0x00000007};
    char flag[44];
    for (int i =0;i<44;i++){
        flag[i]=(enflag[2*i]&0xf) + ((enflag[2*i+1]&0xf)<<4);
    }
}

```

```
        printf("%c",flag[i]);  
    }  
  
    return 0;  
}
```

crypto

rsa

在线网站分解大整数即可

剩下的签到题略