

比较简单的一道题目

```
__aligned__ __attribute__((aligned(16))) unsigned int ptr[20];

v7 = __readfsqword(0x28u);
stream = fopen("flag", "r");
fread(ptr, 1uLL, 0x14uLL, stream);
fclose(stream);
for ( i = 1; i <= 19; ++i )
{
    if ( (i & 1) != 0 )
        printf("%ld\n", (unsigned int)(ptr[i] << i)); // 奇数
    else
        printf("%ld\n", (unsigned int)(i * ptr[i])); // 偶数
}
return 0;
}
```

奇数左移i位，偶数乘上i

```
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key = [198, 232, 816, 200, 1536, 300, 6144, 984, 51200, 570, 92160, 1200, 565248, 756, 1474560, 800, 6291456, 1782, 65536000]
for i in range(1, 20):
    if i&1:
        key[i-1]= key[i-1]>>i
    else:
        key[i-1]= key[i-1]//i
print(bytes(key))
```

```
>>>
RESTART: C:\Users\wsxk\Desktop\ctf\BUUCTF\WUSTCTF2020\level1\level1\exp.py
b'ctf2020{d9-dE6-20c}'
>>>
```