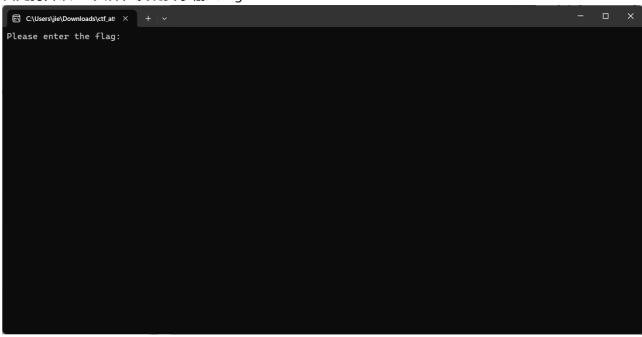
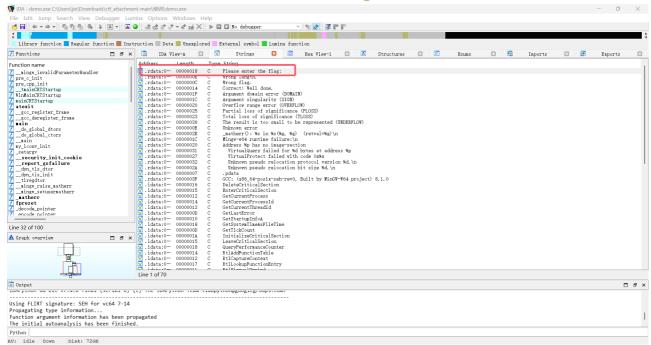
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ez_base

1. 首先打开该exe文件,发现要求输入flag

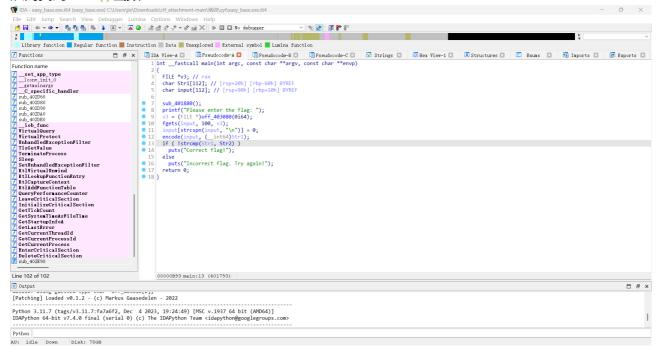


2. 使用IDA对其进行逆向分析,按下Shift + F12进入String界面,对相应字符串进行搜索

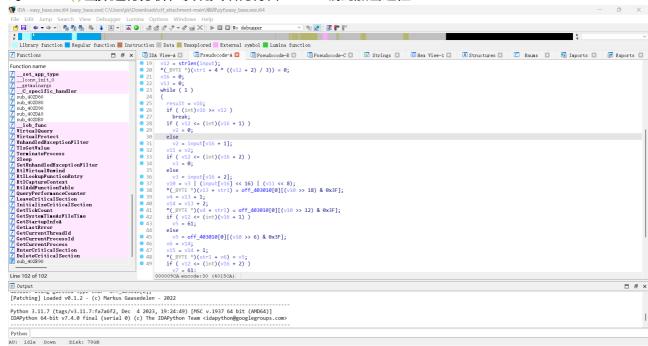


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从而找到main()函数



3. 对encode()函数进行分析,发现其结构符合base64编码加密过程



4. 又经过逆向分析的str2经过解码即为所求flag, 经过搜索得str2值为

Y11He1czbKQwbXRfZHRfUjVzDXC0fU==

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在网上利用在线base64解码工具进行解码得到的为乱码



- 5. 重新进行逆向分析发现该加密算法所遵循的编码表并非传统的base64编码,而是经过"魔改",该代码所 遵循的编码表为EFGHIJKLMNOPQRSTUVWXYZABCDabcdefghijklmnopqrstuvwxyz0123456789+/
- 6. 于是利用python写出脚本对其进行解码

```
def custom_base64_decode(encoded_str):
    custom_table =
"EFGHIJKLMNOPQRSTUVWXYZABCDabcdefghijklmnopqrstuvwxyz0123456789+/"
    char_to_index = {char: idx for idx, char in enumerate(custom_table)}
    padding = encoded str.count('=')
    encoded_str = encoded_str.replace('=', '')
    bytes data = []
    for i in range(0, len(encoded str), 4):
        group = encoded_str[i:i+4]
        indices = [char to index[char] for char in group]
        while len(indices) < 4:
            indices.append(∅)
        value = (indices[0] << 18) | (indices[1] << 12) | (indices[2] << 6) |
indices[3]
        byte1 = (value >> 16) & 0xFF
        byte2 = (value >> 8) & OxFF
        byte3 = value & 0xFF
        bytes data.append(byte1)
        if i + 2 < len(encoded_str):</pre>
            bytes_data.append(byte2)
        if i + 3 < len(encoded str):</pre>
            bytes_data.append(byte3)
```

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```
return bytes(bytes_data).decode('utf-8', errors='replace')

if __name__ == "__main__":
    encoded_input = input("请输入使用自定义Base64编码的字符串: ")
    decoded_result = custom_base64_decode(encoded_input)
    print(f"解密结果: {decoded_result}")
```

求得flag为SYC{W31c0m3_T3_B4se64},输入程序后发现答案正确