Reto2_S13_202320_reverse.exe *Nombre:_____:Codigo:_____*

Al realizar la ingeniería inversa sobre el archivo ejecutable, el primer paso es desensamblar, lo cual se obtiene el siguiente código MASM x86, realice un análisis de ingeniería inversa pasiva para averiguar la contraseña.

```
00AC1002  in          al,dx
00AC1003  sub         esp,0Ch
00AC1006  mov         eax,dword ptr [__security_cookie (0AC4004h)]
00AC100B  xor         eax,ebp
00AC100D  mov         dword ptr [ebp-4],eax
00AC1010  push        ebx
00AC1011  movss       xmm0,dword ptr [__real@c22f0000 (0AC31D4h)]
00AC1019  movss       dword ptr [Pass],xmm0
00AC101E  mov         edx,offset string "Hello, this is the assembly lan@"... (0AC3130h)
00AC1023  mov         ecx,dword ptr [__imp_std::cout (0AC3054h)]
00AC1029  call        std::operator<<<std::char_traits<char> > (0AC10E0h)
00AC102E  mov         edx,offset string "Enter key number: " (0AC316Ch)
00AC1033  mov         ecx,dword ptr [__imp_std::cout (0AC3054h)]
00AC1039  call        std::operator<<<std::char_traits<char> > (0AC10E0h)
00AC103E  lea         eax,[userinput]
00AC1041  push        eax
00AC1042  mov         ecx,dword ptr [__imp_std::cin (0AC304Ch)]
00AC1048  call        dword ptr [__imp_std::basic_istream<char,std::char_traits<char>
>::operator>> (0AC3034h)]
00AC104E  movss       xmm0,dword ptr [Pass]
00AC1053  addss       xmm0,dword ptr [__real@3f800000]
00AC105B  movss       dword ptr [Pass],xmm0
00AC1060  mov         eax,dword ptr [userinput]
00AC1063  push        eax
00AC1064  xor         eax,8000F800h
00AC1069  pop         ebx
00AC106A  rol         eax,2
00AC106D  add         eax,1000000h
00AC1072  ror         eax,2
00AC1075  xor         ebx,800F0000h
00AC107B  cmp         ebx,dword ptr [Pass]
00AC107E  je          main+9Ah (0AC109Ah)
00AC1080  mov         edx,offset string "wrong password...try again: \n" (0AC3180h)
00AC1085  mov         ecx,dword ptr [__imp_std::cout (0AC3054h)]
00AC108B  call        std::operator<<<std::char_traits<char> > (0AC10E0h)
00AC1090  xorps       xmm0,xmm0
00AC1093  movss       dword ptr [userinput],xmm0
00AC1098  jmp         again (0AC10BAh)
00AC109A  mov         edx,offset string "Congratulations...password acce@"... (0AC31A0h)
00AC109F  mov         ecx,dword ptr [__imp_std::cout (0AC3054h)]
00AC10A5  call        std::operator<<<std::char_traits<char> > (0AC10E0h)
00AC10AA  push        offset string "pause" (0AC31C8h)
00AC10AF  call        dword ptr [__imp__system (0AC30C8h)]
00AC10B5  add         esp,4
00AC10B8  jmp         again+0Dh (0AC10C7h)
00AC10BA  mov         ecx,1
00AC10BF  test        ecx,ecx
00AC10C1  jne         main+2Eh (0AC102Eh)
00AC10C7  pop         ebx
00AC10C8  mov         ecx,dword ptr [ebp-4]
00AC10CB  xor         ecx,ebp
00AC10CD  call        __security_check_cookie (0AC13CAh)
00AC10D2  mov         esp,ebp
00AC10D4  pop         ebp
00AC10D5  ret
```