

Computer Security HW3
David Nixon

1. To crack the file, at address 00401241 change the comparison from EAX,EBX to EAX,EAX. This will make any permutation of Name and serial work.
2. To generate the serial for any given Name, take the following steps:
 - a. Capitalize the Name
 - b. Sum the hex representations of each character
 - c. XOR this sum with 5678
 - d. XOR the result with 1234
 - e. Convert the result to decimal format

The decimal value you obtain by the end of these steps is the serial that is required for the given Name.

For example:

David -> DAVID

$44 + 41 + 56 + 49 + 44 = 168$

$168 \text{ XOR } 5678 = 5710$

$5710 \text{ XOR } 1234 = 4524$

4524h = 17700 in decimal format

Example names:

David: 17700

Shifu: 17715

Yujie: 17866

Yiming: 17793