

The function which verifies our key is (in IDA), sub\_835:

**$(a1 \% a1) \wedge (a1 \% 116652) \wedge (\text{unsigned int})(a1 \% a1 == 0);$**

$a1 \% a1$  is always 0, so the expression becomes

**$(a1 \% 116652) \wedge 1$**

This is 1 only if  $a1$  is a multiple of 116652, meaning our key must be a multiple of 116652

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