According to the decompilation of the Ciso Vigenere hash algorithm, when the password length is less than 16 the idea behind Ciso Vigenere hash algorithm is:

Let p be the password that the user types.

Let hp be the hardcoded password in the code of Packet Tracer.

Let lp be the length of the user input password.

Let h be the hash value obtained from the custom algorithm.

So that:

```
\forall h \forall l p \forall h p [hp = \\ ((d, s, f, d, ; k, f, o, A, , ..., i, y, e, w, r, k, l, d, J, K, D, H, S, U, B, s, g, v, c, a, 6, 9, 8, 3, 4, n, c, x, v), \\ 0 < lp < 16, \\ h_0 = 0, \\ h_1 = 8, \\ h = \\ \sum_{i=2}^{lp} \begin{cases} ((p_i \oplus hp_{8+i}) \gg 4) + 0x30, & \text{if } (p_i \oplus hp_{i+8} \wedge 0xffffffff 0 < 0xa0) \text{ and if } i \equiv 0 \pmod{2} \\ ((p_i \oplus hp_{8+i}) \gg 4) + 0x37, & \text{if } (p_i \oplus hp_{i+8} \wedge 0xffffffff 0 \geq 0xa0) \text{ and if } i \equiv 0 \pmod{2} \\ ((p_i \oplus hp_{8+i}) \wedge 0xf) + 0x30, & \text{if } (p_i \oplus hp_{i+8} \wedge 0xf < 0x0a) \text{ and if } i \equiv 1 \pmod{2} \\ ((p_i \oplus hp_{8+i}) \wedge 0xf) + 0x37, & \text{if } (p_i \oplus hp_{i+8} \wedge 0xf \geq 0x0a) \text{ and if } i \equiv 1 \pmod{2} \\ ) \implies \nexists p[p = \mathbf{rev}(h)] \\ (0)
```