```
factor_smaller  THM

⊢  ∀i:{2...}, j:{1...}. j<i•j  by Auto
|
1. i : {2...}
2. j : {1...}
⊢  j<i•j
| by Inst: Thm*  ∀a,b:ℤ, n:ℕ+. a<b ⇒ n•a<n•b    {mul_preserves_lt}
|    Using:[1 | i | j]
|
3. j•1<j•i
⊢  j<i•j  by Auto
END
```