```
prime_or_smaller_prime_factor  THM

⊢  ∀x:{2...}. ∃p:{2...}. p≤x & prime(p) & p | x
| by SimilarTo
|    Thm*  ∀x:{2...}. ∃p:{2...}, c:{1...}. p≤x & prime(p) & x = p•c
|    {prime_or_smaller_prime_factor2} ...w ℕ
|
1. x : {2...}
2. p : {2...}
3. ∃c:{1...}. p≤x & prime(p) & x = p•c
⊢  p≤x & prime(p) & p | x  by Analyze-1
|
3. c : {1...}
4. p≤x & prime(p) & x = p•c
⊢  p≤x & prime(p) & p | x  by SimilarTo: Hyp:-1
|
4. x = p•c
⊢  p | x  by Witness: c ...ℕ
END
```