```
mul_preserves_le  THM

⊢  ∀a,b:ℤ, n:ℕ. a≤b ⇒ n•a≤n•b  by 2 Times Analyze
|
1. a : ℤ
2. b : ℤ
⊢  ∀n:ℕ. a≤b ⇒ n•a≤n•b  by NatInd Concl
|
3. n : ℤ
4. 0<n
5. a≤b ⇒ (n-1)•a≤(n-1)•b
6. a≤b
⊢  n•a≤n•b  by Analyze5
|
5. a≤b
6. (n-1)•a≤(n-1)•b
⊢  n•a≤n•b  by Auto
END
```