```
divides_transitivity  THM

⊢  ∀a,b,c:ℤ. a | b ⇒ b | c ⇒ a | c
| by Unfold ‘divides‘ 0 THEN UnivCD
|
1. a : ℤ
2. b : ℤ
3. c : ℤ
4. ∃c:ℤ. b = a·c
5. ∃c@0:ℤ. c = b·c@0
⊢  ∃c@0:ℤ. c = a·c@0  by Analyze 5 THEN Analyze 4
|
4. c1 : ℤ
5. b = a·c1
6. c@0 : ℤ
7. c = b·c@0
⊢  ∃c@0:ℤ. c = a·c@0  by DTerm (c1·c@0) 0
|
⊢  c = a·c1·c@0  by HypSubst 5 7
END
```