```
imax_lb  THM

⊢  ∀a,b,c:ℤ. imax(a;b)≤c ⟺ a≤c & b≤c
| by RemoveGuards Concl THEN UnivCD
|
1. a : ℤ
2. b : ℤ
3. c : ℤ
⊢  imax(a;b)≤c ⟺ a≤c & b≤c  by Decide: a≤b THEN ElimImaxmin Auto 0
|
|\
| 4. a≤b
| ⊢  b≤c ⟺ a≤c & b≤c  by Auto
|
.\
. 4. ¬a≤b
. ⊢  a≤c ⟺ a≤c & b≤c  by Auto
END
```