```
mapoutl_member  THM

⊢  ∀A,B:Type, s:(A+B) List, x:A. (x ∈ mapoutl(s)) ⟺ (inl(x) ∈ s)
| by RWO
|    Thm* ∀s:(A+B) List, x:A.
|         (x ∈ mapoutl(s)) ⟺ (∃y:A+B. (y ∈ s) & isl(y) & x = outl(y))
|    {member_mapoutl}
|    0
|
|\
| 1. A : Type
| 2. B : Type
| 3. s : (A+B) List
| 4. x : A
| 5. ∃y:A+B. (y ∈ s) & isl(y) & x = outl(y)
| ⊢  (inl(x) ∈ s)
|   by ExRepD THEN (Analyze -4) THEN (All Reduce)
|      THEN
|      (HypSubst -1 0)
|
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. 1. A : Type
. 2. B : Type
. 3. s : (A+B) List
. 4. x : A
. 5. (inl(x) ∈ s)
. ⊢  ∃y:A+B. (y ∈ s) & isl(y) & x = outl(y)
.   by (InstConcl [inl(x)]) THEN (Reduce 0)
END
```