

[SWI-Prolog 6.6.6](#)

☒ All
 ☐ Application
 ☐ Manual
 ☐ Name
 ☒ Summary
 [Help](#)

# utility\_module.pl -- Utility Predicates



- This module has some useful list based predicates
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**member1**(+Item:atom, +List:list) is **semidet**

1 : This is true when *Item* is in *List*.



**member1**(-Item:var, +List:list) is **nondet**

2 : *Item* is the first item in the *List* or fails for an empty *List*



**member1**(+Item:atom, -List:list) is **det**

3 : *Item* is the head of a *List*, then a var.



**drop**(+N:int, +L:list, -NewL:list) is **det**

Means list *NewL* is *L* with its first *N* elements removed.



**index\_of**(+List:list, +Element:atom, -Index:int) is **nondet**

Finds the (Oth) *Index* for *Element* in *List*, will find the next *Index* on back tracking.



**count\_of**(+List:list, +Element:atom, -Count:int) is **det**

1: *Count* of *Element* in *List*.



**count\_of**(+List:list, +Element:atom, +Count:int) is **semidet**

2: Is it true that *List* has *Count* copies of *Element*?



**count\_of**(+List:list, -Element:atom, -Count:int) is **det**

3: How many of first *Element* in *List*?

