Quiz Stuff

Use a full sheet of 8½x11" paper. (Half sheet? Half credit!)

Put your last name and NetID in the far upper left hand corner of the paper, where a staple would hit it. (It helps us sort quizzes!)

Mitchell, whm

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No need to write out questions. It's ok to abbreviate answers.

Numbering responses may help you avoid overlooking a question; it's ok to go ahead and pre-number your sheet.

3 minutes; one 3-point question. ½ point E.C. if no singletons.
1. Write a predicate `middle(+List, ?Middle)` where `Middle` is List with the first and last elements removed.

   ```prolog
   ?- middle([a,b,c,d,e],M).
   M = [b, c, d] ;
   false.
   
   ?- middle([1,2],[[]]).
   true.
   
   ?- middle([1],M).
   false.
   ```

As a reminder, here's the documentation for `append`:

   ```prolog
   ?- help(append/3).
   append(?List1, ?List2, ?List1AndList2)
   List1AndList2 is the concatenation of List1 and List2
   ```
Usage:

?- middle([a,b,c,d,e],M).
M = [b, c, d] ;
false.

Solution:

middle(L,M) :-
    append([ _ ], Rest, L),
    append(M, [ _ ], Rest).