Exercise 2-2

October 4, 2024

Listing 1: Unaltered middle predicate

Listing 2: Altered version 1

```
middle(X, [First|Xs]) :-
append(Middle, [Last], Xs),
middle(X, Middle).
middle(X, [X]).
```

Listing 3: Altered version 2

```
middle(X, [First|Xs]) :-
middle(X, Middle),
append(Middle, [Last], Xs).
middle(X, [X]).
```

Listing 4: Altered version 3

```
middle(X, [X]).
middle(X, [First|Xs]):-
middle(X, Middle),
append(Middle, [Last], Xs).
```