This is not hard, but is also not easy. There are several files to get right, and lots of places to make mistakes. Please get going right away, and have questions next Tuesday.

1. Write a simple class with one trivial field that does not allow concatenation (horizontal, vertical, or in higher dimensions. Call the class noconcat and the field Value. The following should work.

```matlab
>> A = noconcat(7);
>> A.Value % should be 7
>> get(A,'Value') % should be 7
>> set(A,'Value',8);
>> get(A,'Value') % should be 8
>> AA = set(A,'Value',9);
>> get(A,'Value') % should be 8
>> get(AA,'Value') % should be 9
>> B = [A];
>> isequal(B,A) % should be TRUE
>> C = B(1);
>> D = B(1,1,1);
>> A(1,1) = D;
>> A(1,1).Value % should be 8
```

The following should not work.

```matlab
>> A = noconcat(7);
>> A(2) = noconcat(9); % error message -> 'NOCONCAT objects must be scalar.'
>> B = noconcat(9);
>> C = [A B]; % error message -> 'NOCONCAT objects must be scalar.'
>> C = [A;B]; % error message -> 'NOCONCAT objects must be scalar.'
>> A{1} % error message -> 'NOCONCAT objects cannot use {} reference.'
```

You will need an @noconcat folder with a constructor, and (at least) horzcat, vertcat, get, set, subsref, subsasgn methods.