```
Fill in the Blank 1:
x1 = ca{2}{1};
x2 = ca{3}{2}{2:end};
Fill in the Blank 2:
Line 2: fieldnames(st)
Line 5: fnames{i}
Line 6: {st.(field)}
Line 10: cell(1, len .* 2 - 1) OR zeros(1, len .* 2 - 1)
Fill in the Blank 3:
Line 5: {st.(banned)}
Line 10: st = rmfield(st,banned);
Line 14: isfield(st,'Talent')
Line 25: st(inds)
Short Coding 1:
  % ANSWER
  header = petInfo(1,:);
  data = petInfo(2:end,:);
  mask = strcmp(header, 'weight');
  col = cell2mat(data(:,mask));
  [~,inds] = sort(col);
  data = data(inds,:);
  updated = [header; data];
  % ALTERNATIVE ANSWER
  mask = strcmp(petInfo(1,:),'weight');
  col = cell2mat(petInfo(2:end,mask));
  [\sim, inds] = sort(col);
  updated = petInfo([1 inds+1],:);
  % There are other valid options! Ask on Piazza or run in MATLAB to verify.
  % Remember that you must use strcmp to find the column associated with
  % 'weight' -- assuming its the 3rd column is hard coding
```

```
Short Coding 2:
```

```
% ANSWER
  header = petInfo(1,:);
  data = petInfo(2:end,:);
  col = data(:,2);
  mask = strcmpi(col, 'dog') | strcmpi(col, 'cat');
  data = data(mask,:);
  updated = [header; data];
  % Alternate answer
  col = petInfo(2:end,2);
  mask = strcmpi(col,'dog') | strcmpi(col,'cat');
  updated = petInfo([true mask],:);
Short Coding 3:
  % solution
  freed = 0;
  st = box1;
  while ~isempty(st)
      freed = freed + double(st.cat);
      st = st.next;
  end
  % alternate solution
  freed = 0;
  st = box1;
  while ~isempty(st)
      if st.cat
           freed = freed + 1;
      end
      st = st.next;
  end
```

Long Coding:

```
□ function wordComp(filename,word1,word2)
 2 -
        fh = fopen(filename);
       newfilename = ['compare_' word1 '_' word2 '.txt'];
 3 -
        fhw = fopen(newfilename, 'w');
 4 -
 5
        line = fgetl(fh);
 6 -
     p while ischar(line)
 7 -
            line = lower(line);
 8 -
            count1 = length(strfind(line, lower(word1)));
 9 -
            count2 = length(strfind(line, lower(word2)));
10 -
            if count1 > count2
11 -
                fprintf(fhw,'%s\n',word1);
12 -
            elseif count1 < count2</pre>
13 -
                fprintf(fhw,'%s\n',word2);
14 -
            else
15 -
                fprintf(fhw,'equal\n');
16 -
17 -
            end
            line = fgetl(fh);
18 -
19 -
       end
        fclose(fh);
20 -
        fclose(fhw);
21 -
       end
22 -
```