```
% Random shuffling of 4 apples
% by Katie Tsai

function apples = apple_shuffle(fj1, gs1, hc1, gl1)
num_apples=4;
order=randperm(num_apples,num_apples);

% scale fuji training apple
scale=50;
fj1_sz=size(fj1);
fj1_2=imresize(fj1, floor(fj1_sz(1)/scale)/100); fj1_resz=size(fj1_2);

% concatenate 1st image, space for 2nd image
if order(1)==1
        el1=fj1_2;
    elseif order(1)==2
        el1=gs1;
    elseif order(1)==3
        el1=hc1;
    else
        el1=gl1;
end
el1_sz=size(el1);

if order(2)==1
        el2=fj1_2;
    elseif order(2)==2
        el2=gs1;
    elseif order(2)==3
        el2=hc1;
    else
        el2=gl1;
end
el2_sz=size(el2);

curr_dim=el1_sz;
apples=el1; sz=size(apples);
sz(1,end+el2_sz(2),1) = 0;

% concatenate apples 2-4
for idx=2:4
    % set value of element to be concatenated
    if order(idx)==1
        el=fj1_2;
    elseif order(idx)==2
        el=gs1;
    elseif order(idx)==3
        el=hc1;
    else
        el=gl1;
    end
    el_sz=size(el);
```

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    sz(1,end+el_sz(2),1)=0;
    apples(1:el_sz(1), curr_dim:curr_dim+el_sz(2)-1,:) = el;
    curr_dim=curr_dim+el_sz(2)-1; %sets for next round

end

end
```

```
Not enough input arguments.

Error in apple_shuffle (line 10)
fj1_sz=size(fj1);
```

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