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%Homework 4/17: Storing Planetary Data with Structure arrays
%Initial value of k
k=1;
%Allow user to pick from menu
response=menu('Would you like to enter planetary data?', 'Yes','No');
%While the response is yes, continue loop
while response==1
    disp('Please enter strings in single quotes')
    %Prompt user to input various data
    planet(k).name=input('Enter the name of the planet in single
 quotes\n');
    planet(k).mass=input('Enter the mass of the planet, in earth
 multiples\n');
    planet(k).year=input('Enter the length of a year on the planet, in
 earth years\n');
    planet(k).orbit=input('Enter the mean orbital velocity of the
 planet, in km/sec\n');
    %Display what the user has inputted
    planet(k)
    %Ask user whether this is correct
    increment=menu('Review the data. Is this correct?', 'Yes', 'No');
    %If it is incorrect, allow user to fix inputs
    while increment==2
        %User chooses from menu of items to fix
        n=menu('Which input would you like to
 fix?','Name','Mass','Year','Orbit', 'None');
        if n==1
            planet(k).name=input('Enter the name of the planet in
 single quotes\n');
        elseif n==2
            planet(k).mass=input('Enter the mass of the planet, in
 earth multiples\n');
        elseif n==3
            planet(k).year=input('Enter the length of a year on the
 planet, in earth years\n');
        elseif n==4
            planet(k).orbit=input('Enter the mean orbital velocity of
 the planet, in km/sec\n');
        %If there is nothing else to fix, break out of this loop
        else
            break
        end
    end
    k=k+1; %Go on to next value
    %Ask user whether they would like to enter more planetary data
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response=menu('Would you like to enter planetary
data?', 'Yes','No');
end
```

%Create table and display values
t=struct2table(planet);
disp(t)

name	mass	year	orbit
'Mercury'	0.055	0.24	47.89
'Venus'	0.815	0.62	35.02
'Earth'	1	1	29.79

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