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 3: // Date: 03/04/2011
 4: // Program: MyFriends.pas
 5: // Description: reads strings from a prompt into an array
 6: program MyFriends;
 7:
 8: uses SysUtils;
 9:
10: type
11:     Address = record
12:     no: Integer;
13:     street: String;
14:     suburb: String;
15:     end;
16:
17:     Friend = Record
18:         name, phone : String;
19:         age : Integer;
20:         address : Address;
21:         end;
22:
23: Function ReadString(prompt : String):String;
24: begin
25:     Write(prompt);
26:     ReadLn(result);
27: end;
28:
29: Function ReadInt(prompt : String):Integer;
30: var
31:     temp : String;
32:     age : Integer;
33: begin
34:     while not TryStrToInt(ReadString(prompt),age) do
35:     begin
36:         WriteLn('Please enter a whole number :');
37:         ReadLn(temp);
38:     end;
39:     result := age;
40: end;
41:
42: function ReadFriend():Friend;
43: begin
44:     result.name := ReadString('Enter a Name :');
45:     result.phone := ReadString('Enter a phone :');
46:     result.age := ReadInt('Enter an age :');
47:     result.address.no := ReadInt('Enter Your Street Number :');
48:     result.address.street := ReadString('Enter Your Street :');
49:     result.address.suburb := ReadString('Enter Your Suburb :');
50: end;
51:
52: procedure PopulateFriends(var list : array of Friend);
53: var
54:     i : Integer;
55: begin
56:     for i := Low(list) to High(list) do
57:     begin
58:         list[i] := ReadFriend();
59:     end;
60:
61: end;
62: procedure PrintFriends(const list : array of Friend);
63: var
64:     i: Integer;
65: begin
66:     for i := Low(list) to High(list) do
67:     begin
68:         WriteLn('Name :',list[i].name);
69:         WriteLn('Phone :',list[i].phone);
70:         WriteLn('Age :',list[i].age);
71:         WriteLn('Address :',list[i].address.no,' ' ,list[i].address.street);
72:         WriteLn('Suburb :',list[i].address.suburb)
73:     end;
74: end;
75:
76: procedure Main();
77: var
78:     names : array [0..2] of Friend;
79: begin
80:     PopulateFriends(names);
81:     PrintFriends(names);
82: end;
83:
84: begin
85:     Main();
86: end.
```