

## **Exercise # 9 Solution**

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### **Exercise 1:**

- a. Record: A structured data type with a fixed number of components that are indexed by name. The components may be heterogeneous.
- b. Field: A component of a record.
- c. Dot notation: A mechanism used to access the components of a struct variable.
- d. Union: A struct that holds only one of its members at a time during program execution.

## Exercise 2:

Statement	Valid	Invalid
<code>if (aMap.style == BRIEF)     count++;</code>	x	
<code>guide[1].chart.token[2] = aMap;</code>		x
<code>guide[6].chart = aRef;</code>	x	
<code>strcpy(aMap.mapCode[0], aRef.token[0]);</code>		x
<code>guide[100].chart.token[1][2] = aCode[2];</code>	x	
<code>guide[20].token[1] = aCode;</code>		x
<code>if (guide[20].style == FORMAL)     guide[20].chart.token[0][0] = 'A';</code>	x	
<code>aMap = guide[5];</code>	x	
<code>aMap.chart = aRef;</code>	x	

## Exercise 3:

- `aRef = guide[70].chart;`
- `strcpy(aCode, guide[87].chart.token[0]);`
- `guide[93].chart.token[22][0] = 'X';`
- `aRef.symbol[19][8] = aMap.mapcode[3];`