

**ENGINEERING H192
PRELIMINARY ASSIGNMENT 21**

Indicate whether the following statements are TRUE (T) or FALSE (F). Some statements may reference the C code statements below. Assume the code has been properly used within a program.

(NOTE: The numbers at the far left represent line numbers and are for reference only.)

```

1  struct Beowulf
2  {
3      int Grendel;
4      float Hrothgar[10];
5      float Hygelac;
6  };
...

20 struct Beowulf z1, *pointer_to_struct;
21 pointer_to_struct = &z1;

```

	True/False
1. A struct is like an array in which the elements may be of different data types.	
2. A struct may NOT contain another struct.	
3. While a struct may contain an array, you may NOT have an array of structs.	
4. <code>pointer_to_struct -> Grendel = 15;</code> is a valid C/C++ statement.	
5. <code>pointer_to_struct.Hygelac = 12.56;</code> is a valid C/C++ statement.	
6. <code>z1.Hrothgar[5] = 270;</code> is a valid C/C++ statement.	
7. Modifying the Beowulf struct by entering the statement " struct Beowulf z2; " after line 5 is valid.	
8. Modifying the Beowulf struct by entering the statement " struct Beowulf *pz2; " after line 5 is valid.	

Name _____ Instr. _____ Room _____ Seat _____ Hour _____