Problem Set 7:

Problem Set due Jul 31, 2023 20:06 PDT Completed Consider the following code:

```
typedef struct grades {
     char name[64];
     unsigned long id;
     float scores[11];
grades g[60]; // grades for class
float *sp = &g[7].scores[3];
```

Structures in Memory

1/1 point (graded)

Suppose the g array is stored in memory starting at address 0×00002000. Assume an unsigned long is 4 bytes. What is the value of sp? Express your answer in hexadecimal starting with 0x



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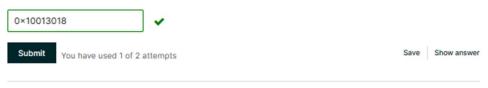
Complete the snippet of C code below set the UART peripheral to a target baud rate of 250 KHz given a TileLink bus clock (tlclk) frequency of 16 MHz. Write the appropriate memory-mapped register (div) with a pointer named UARTO_DIV using the code below. Consult the FE310-g002 manual to determine the values of A and B.

volatile unit32_t *UART0_DIV = (uint32_t*)A; *UARTO_DIV |= B;

Peripheral Address

1/1 point (graded)

What is A? Express your answer in hexadecimal starting with 0x.



Peripheral Write Value

1/1 point (graded)

What is B? Express your answer in decimal. Remember that the divisor in the table is div + 1.



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