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Q1: What do the .data , .word, .text directives mean(i.e., what do you put in each section)?

.data allows the program to access certain points, whereas .word will allocate the variable and size. The .text directive will tell the assembler, in this case MARS, that the following will take in a text segment

Q2: How do you set a breakpoint in MARS? Set breakpoint on line 15, give the command in your answer.

To set a breakpoint at line 15, check the mark of bkpt on the execute tab on line 15.

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Q3: After your program stops because of a breakpoint, how do you continue to execute your code? How do you step through your code?

To continue running after the breakpoint, use the run function again. To step through the code, you can use the built in step arrow on the top on the toolbar next to run, or press f7.

Q4: How can you find out the contents of a register? How do you modify the value of a register?

A way to modify the contents in the register is to break at a point and manually change the displayed table cell.

Q5: At what address is n stored in memory? Calculate the 13th fib number by modifying this memory location.

The address at n is 0 x 10010010.   
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Q6: Line 18 and 20 use syscall instruction. What is it and how do you use it?

syscall is a system call function where it calls functions out of the initial code. It uses syscall to print out an integer and will then exit.