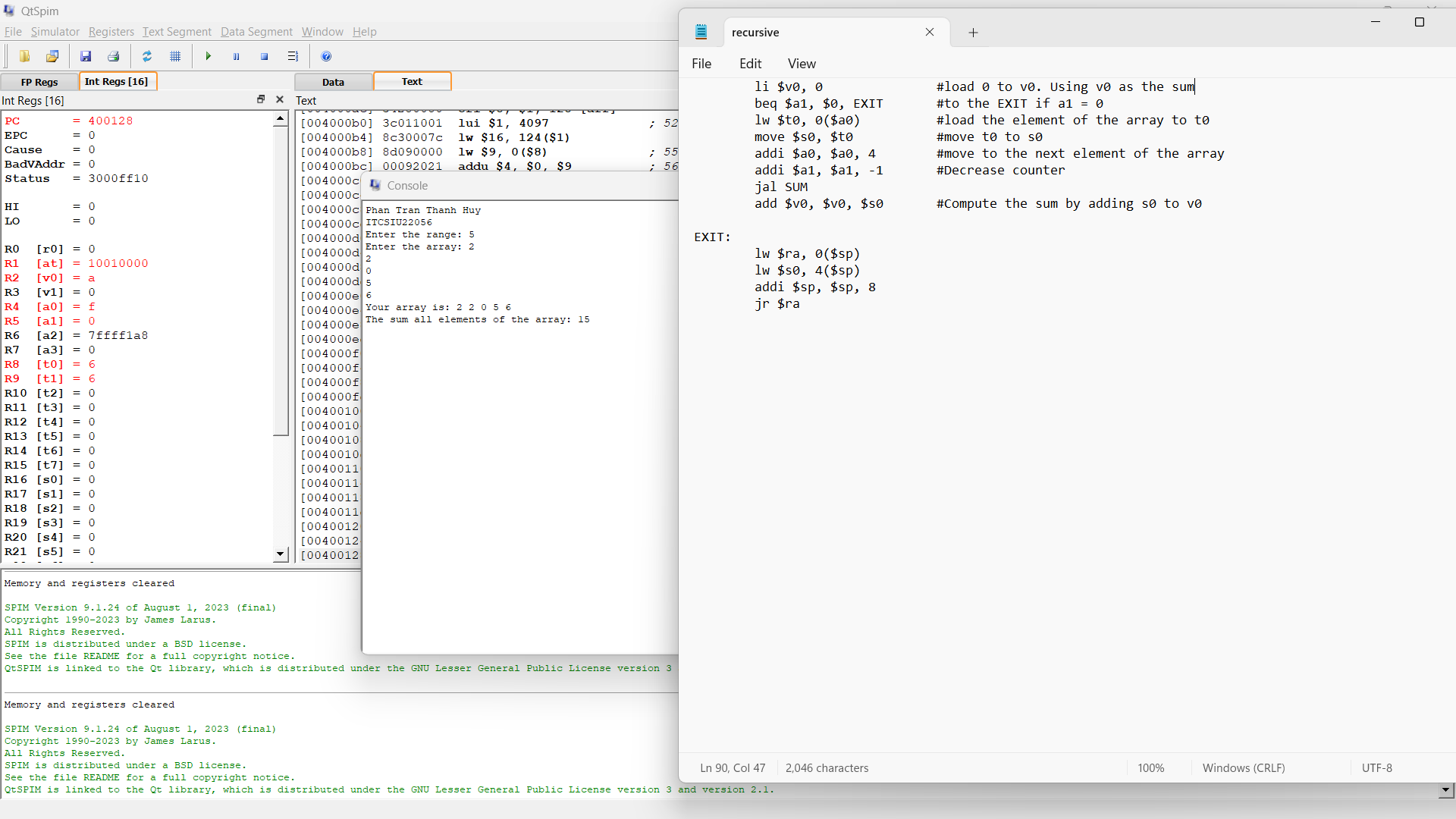
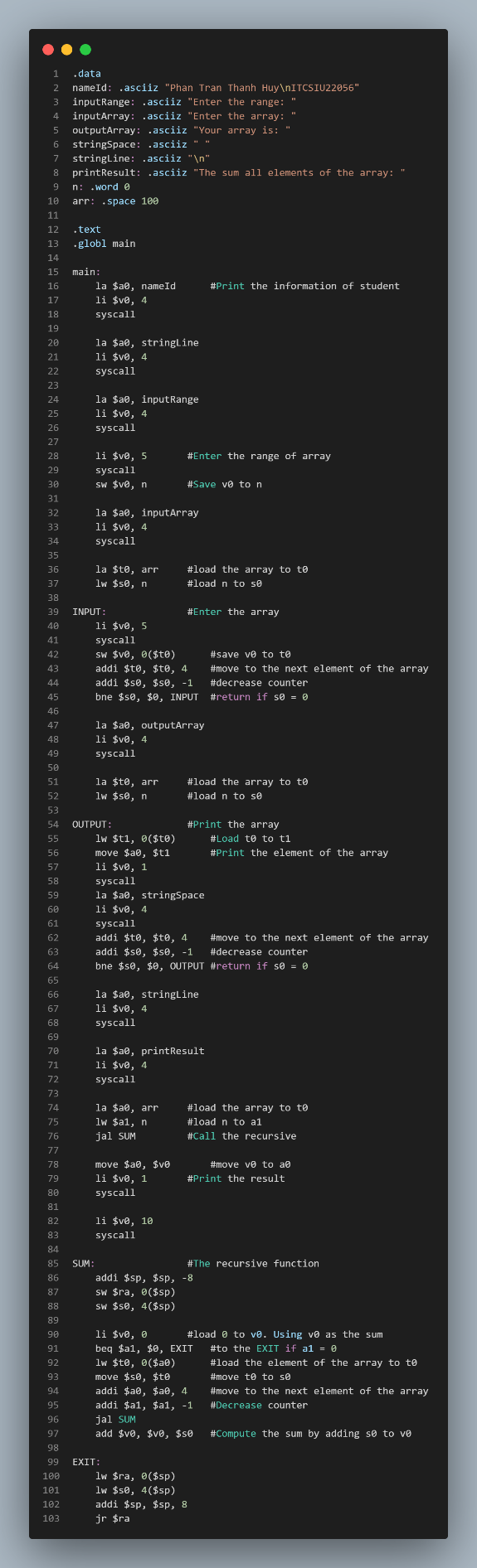
**Name:** Phan Tran Thanh Huy

**ID:** ITCSIU22056

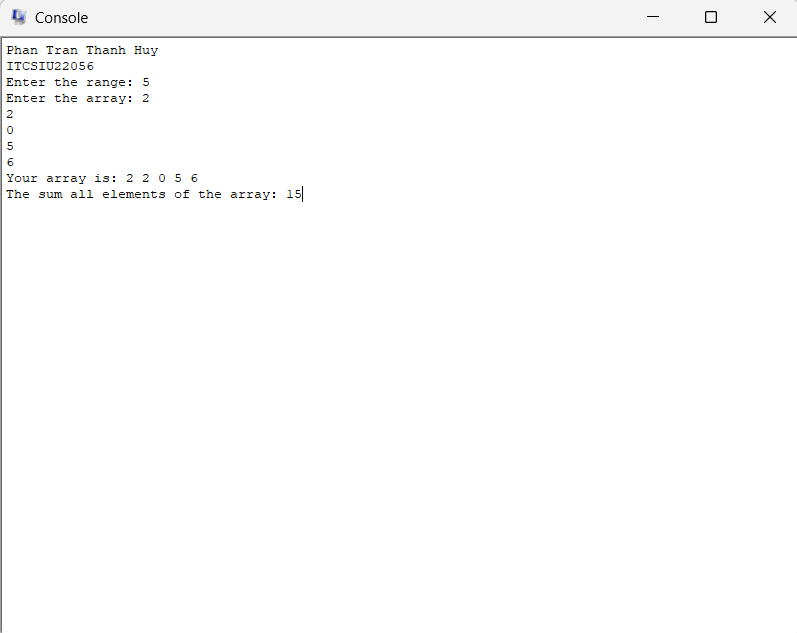
Lab 6

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**Code:**

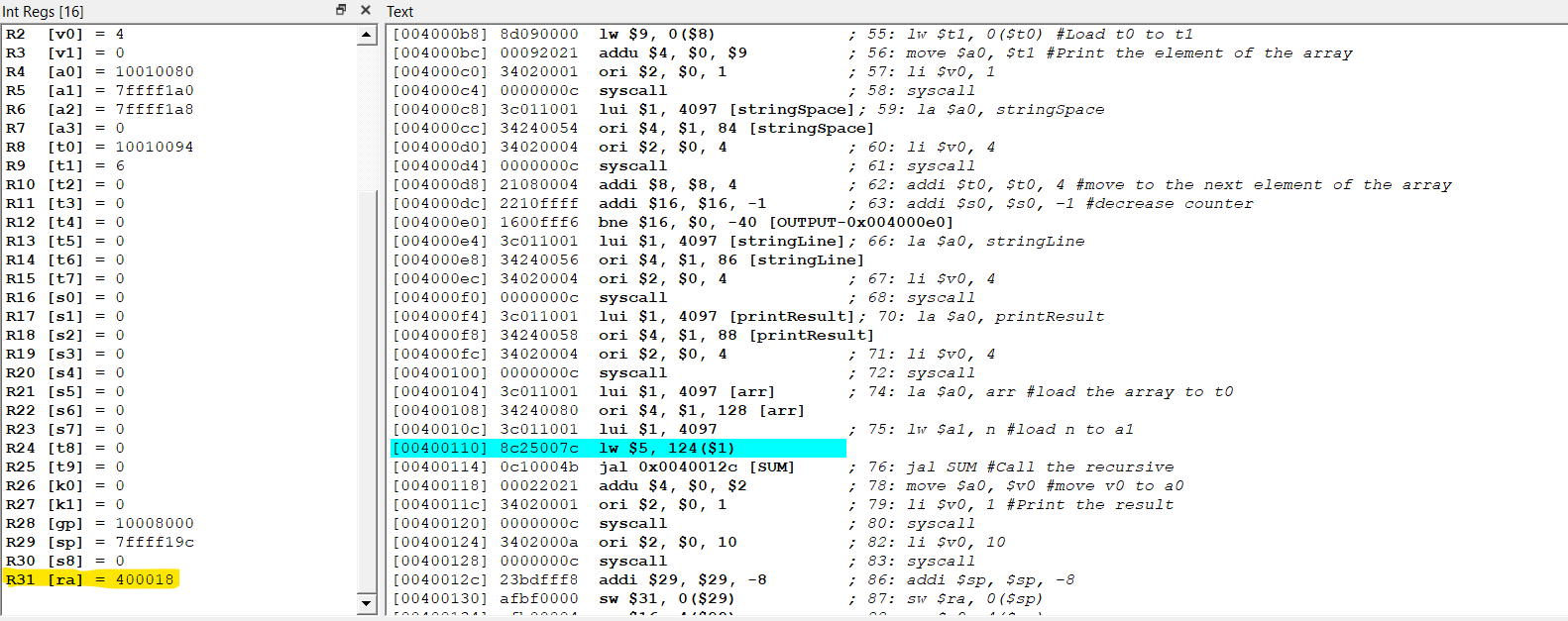
****

**Result:**

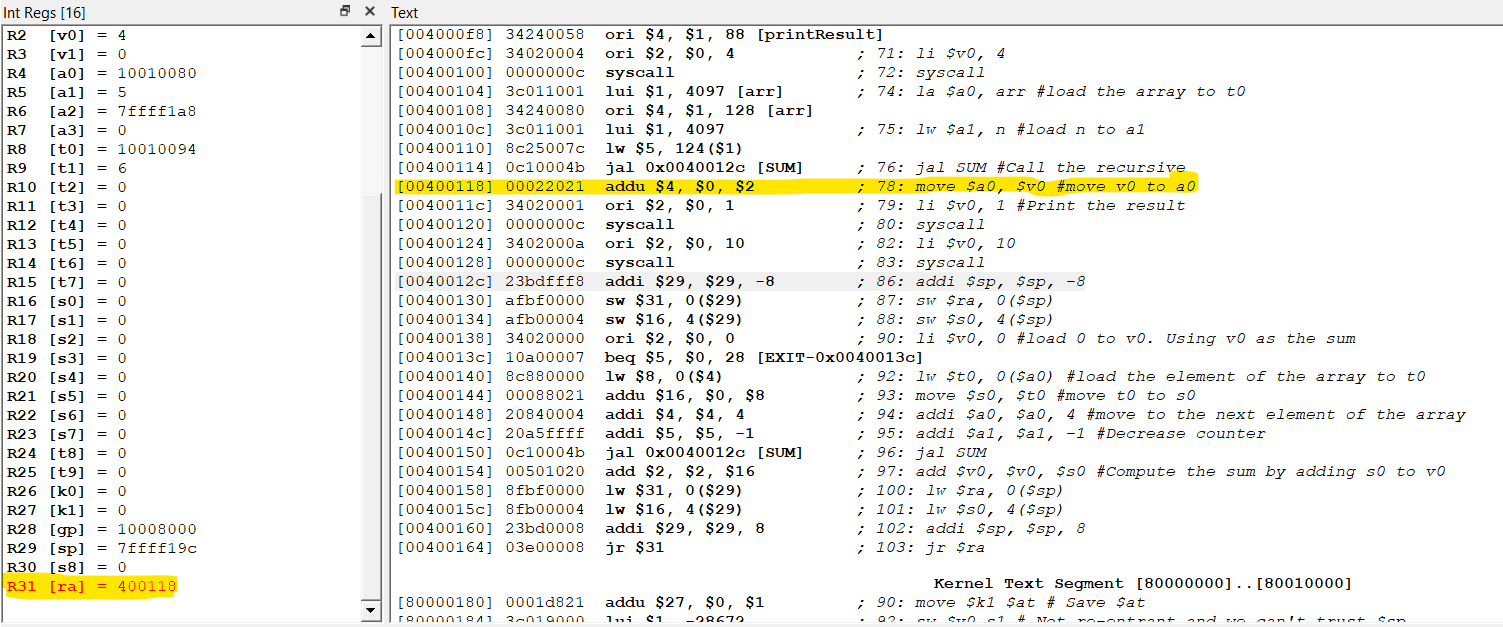
****

**Explaination of the address:**

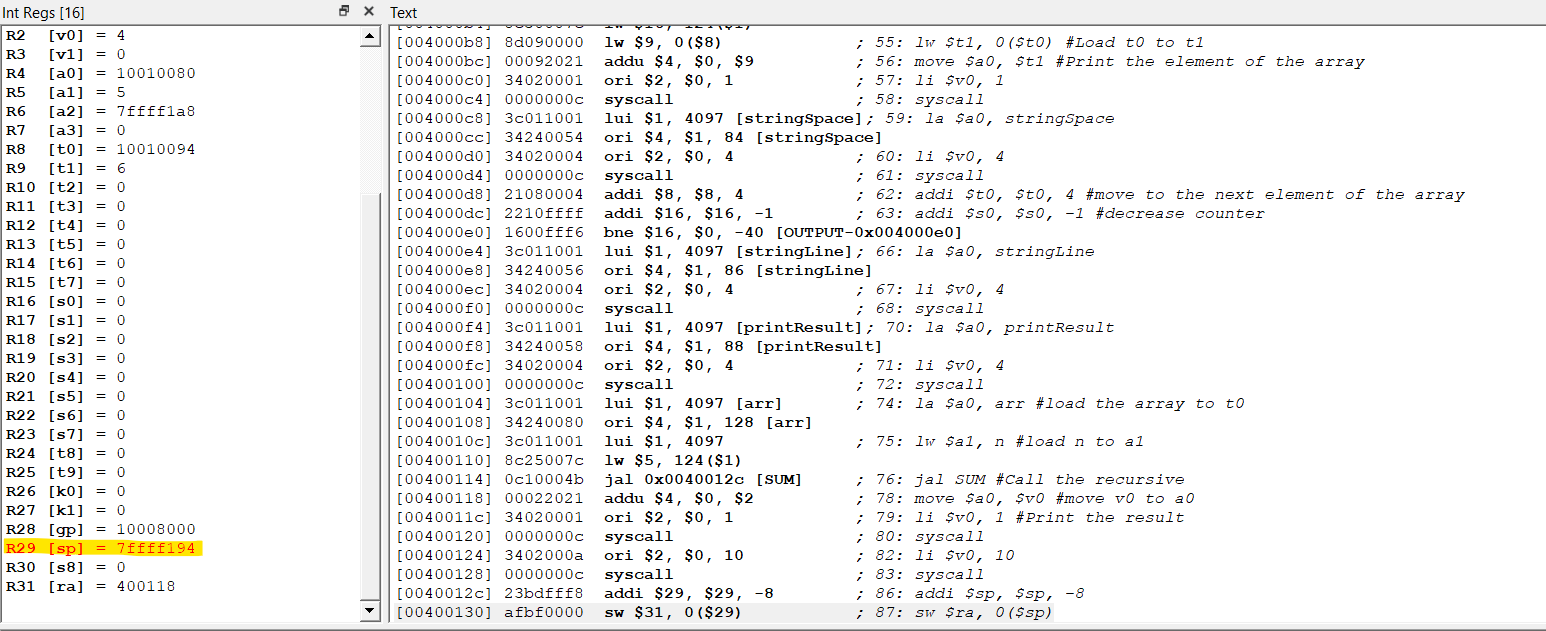
Before calling the procedure SUM, the initial return address is stored in memory address [00400018] and the initial stack pointer address is stored in memory address [7ffff19c].



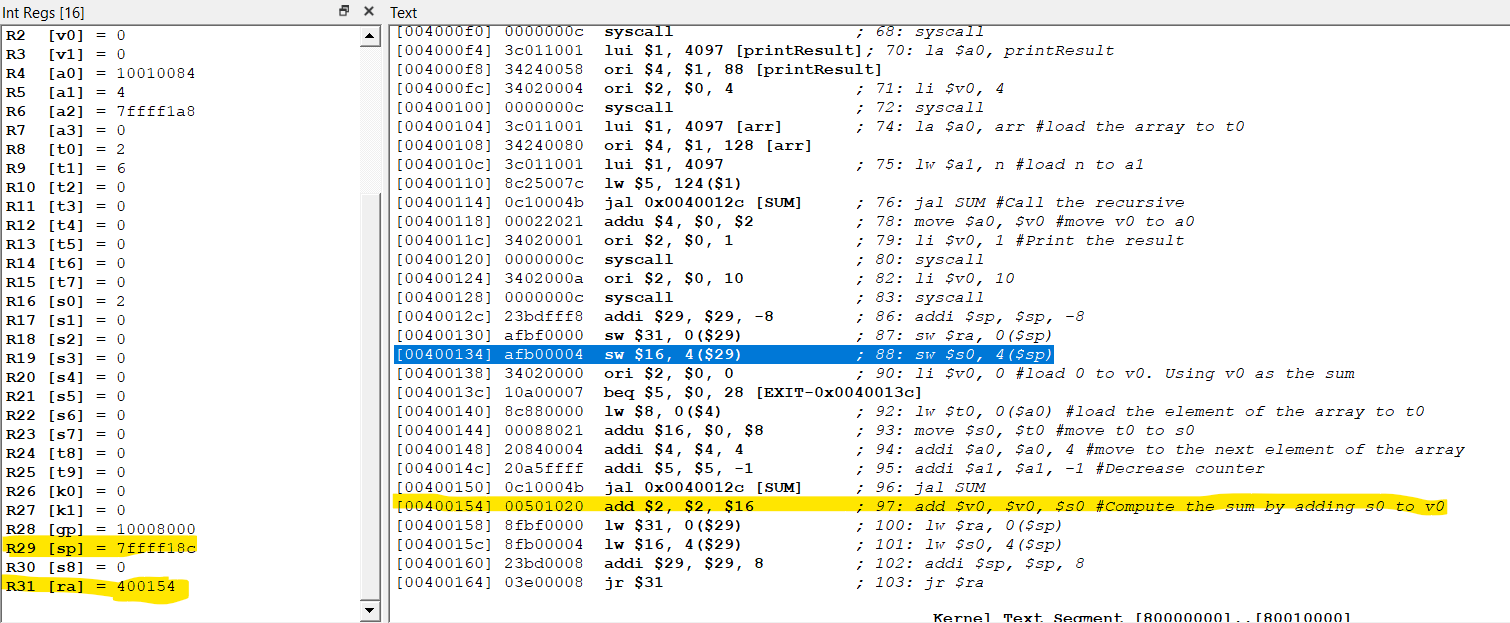
After calling the procedure SUM, the return address is stored in memory address [00400118], which is the return address of the callee to the main function.



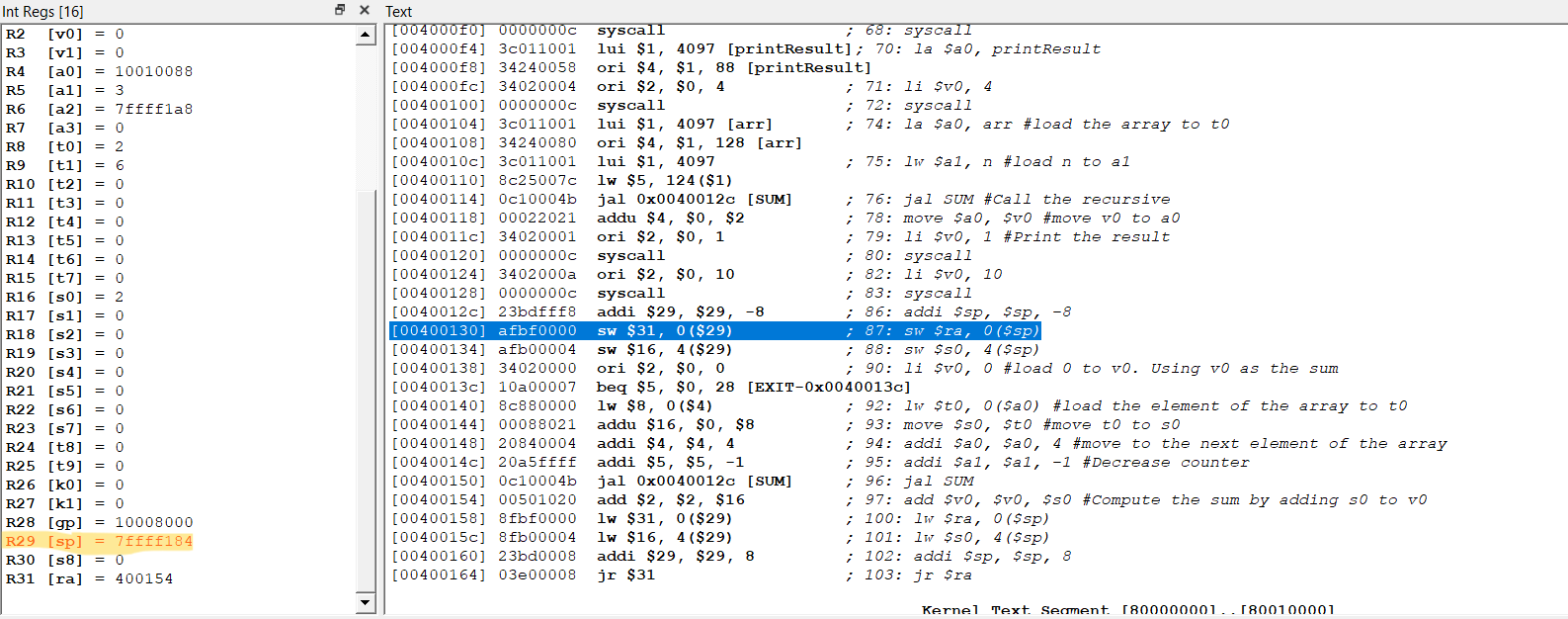
And the stack pointer is stored in memory address [7ffff194]

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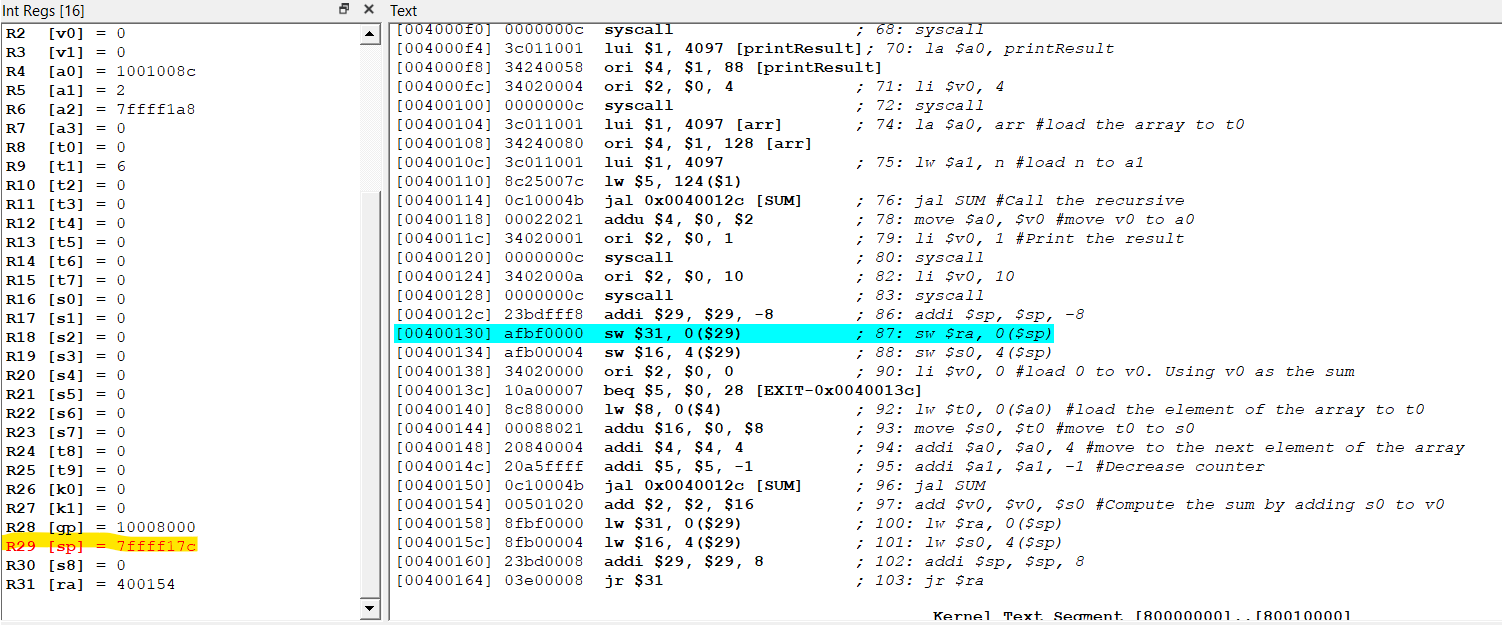
In the first save, the stack pointer is stored in memory address [7ffff18c] and the return address is stored in memory address [00400154], which is the return address of the add operation.

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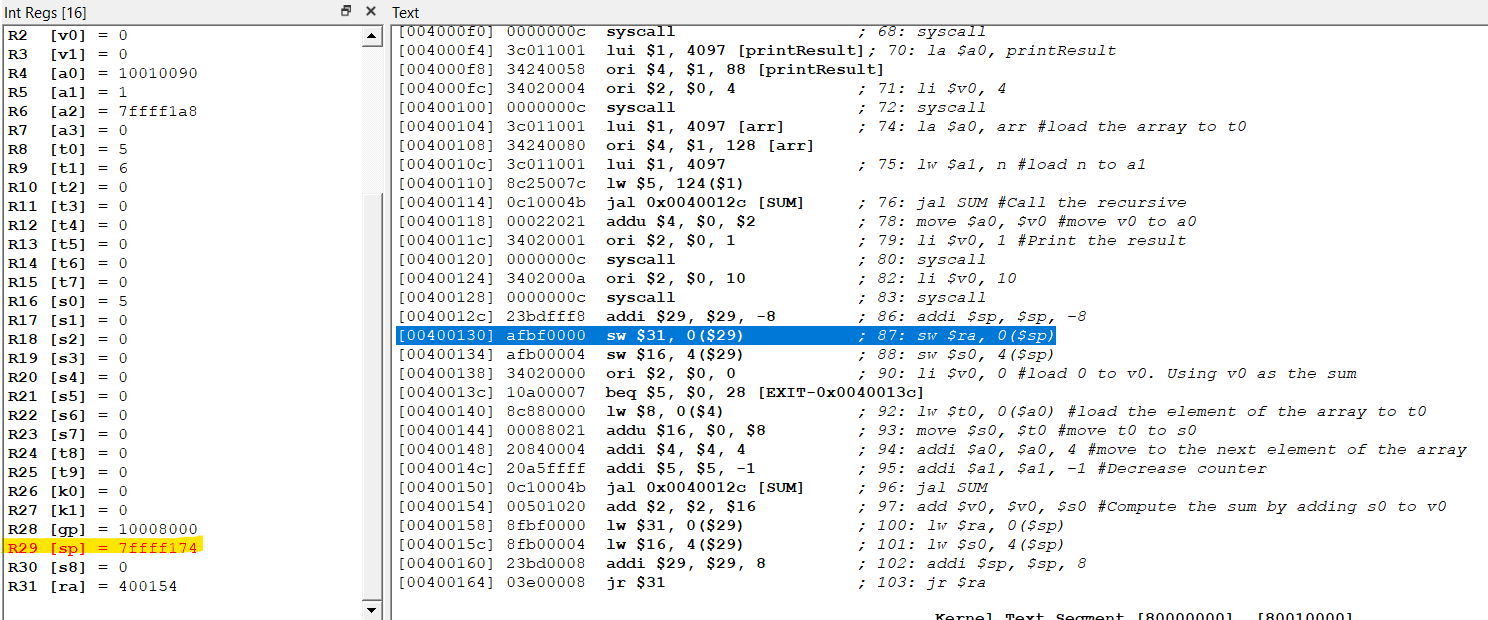
In the second save, the stack pointer is stored in memory address [7ffff184]

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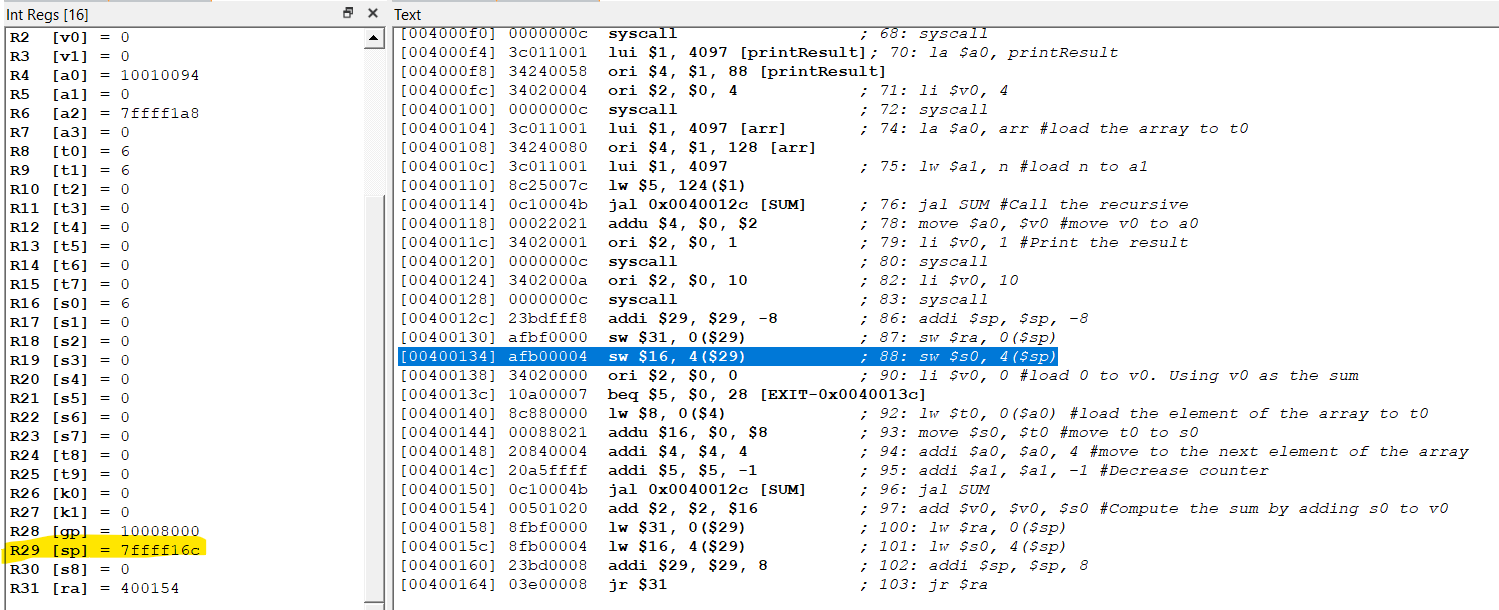
In the third save, the stack pointer is stored in memory address [7ffff17c]

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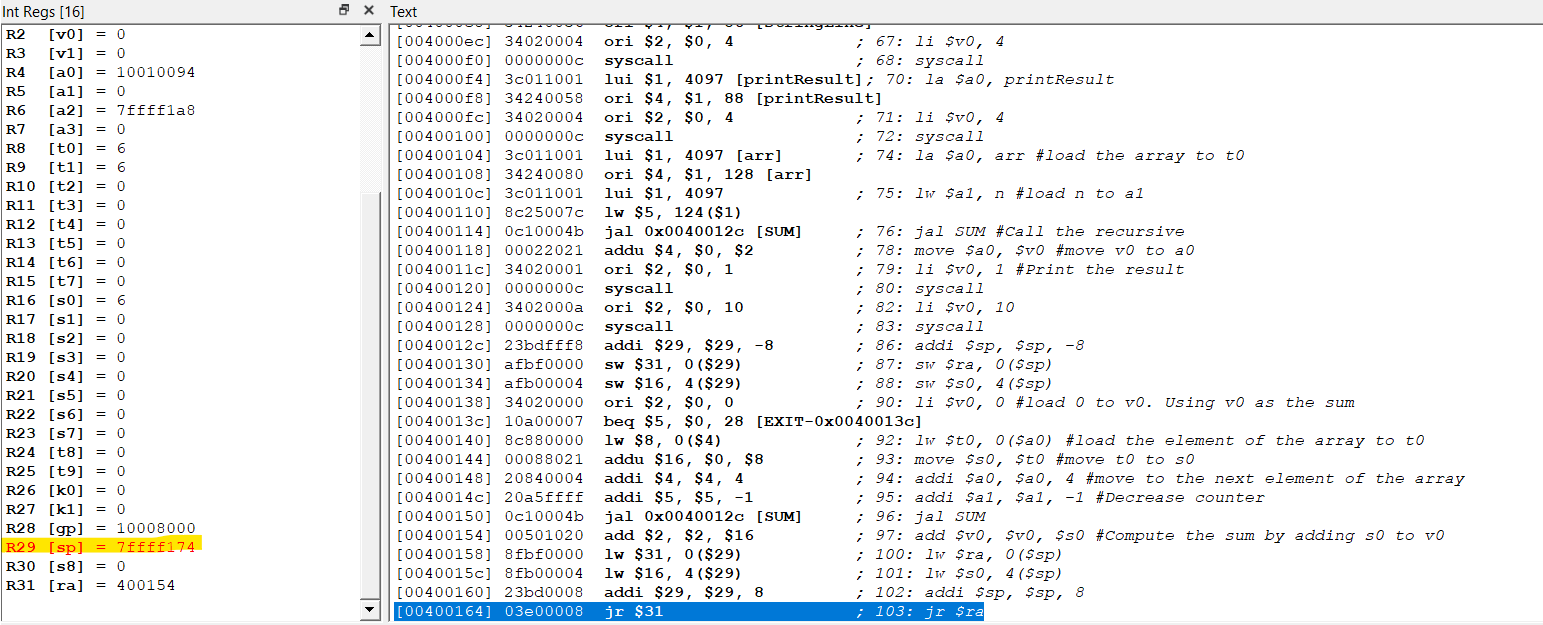
In the fourth save, the stack pointer is stored in memory address [7ffff174]

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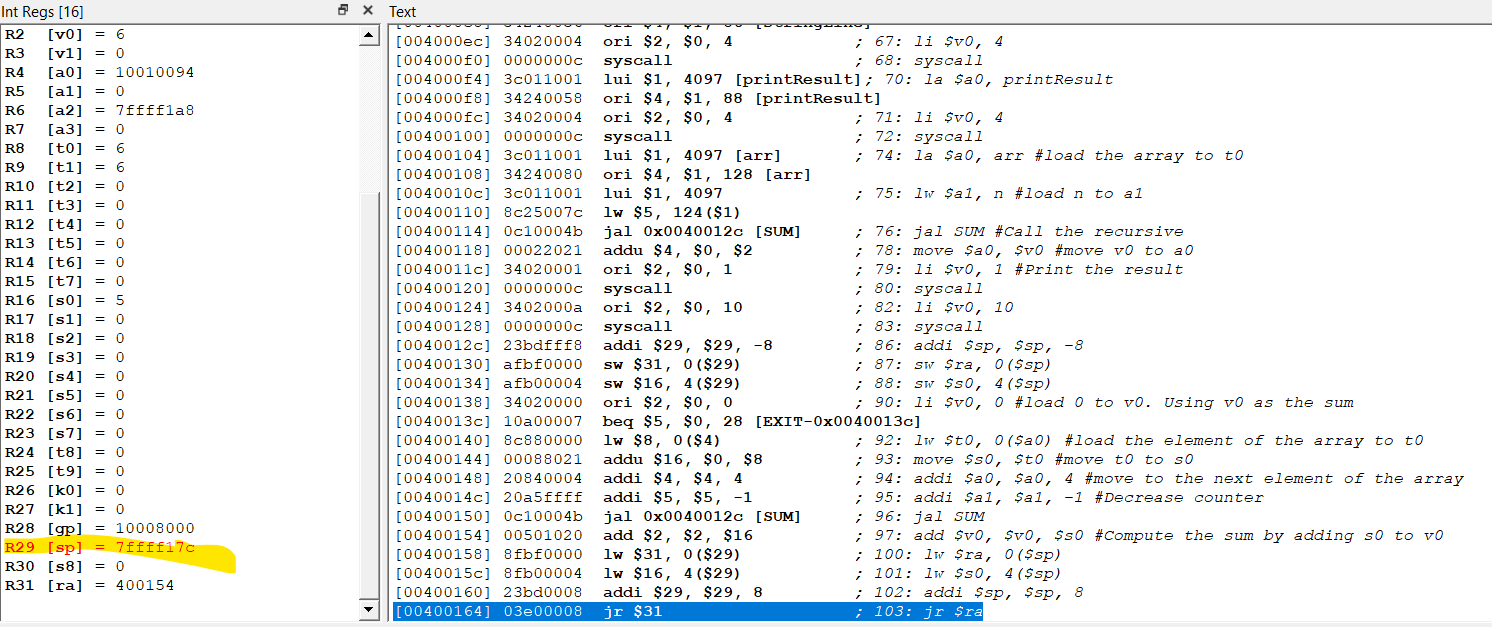
In the fifth save, the stack pointer is stored in memory address [7ffff16c]

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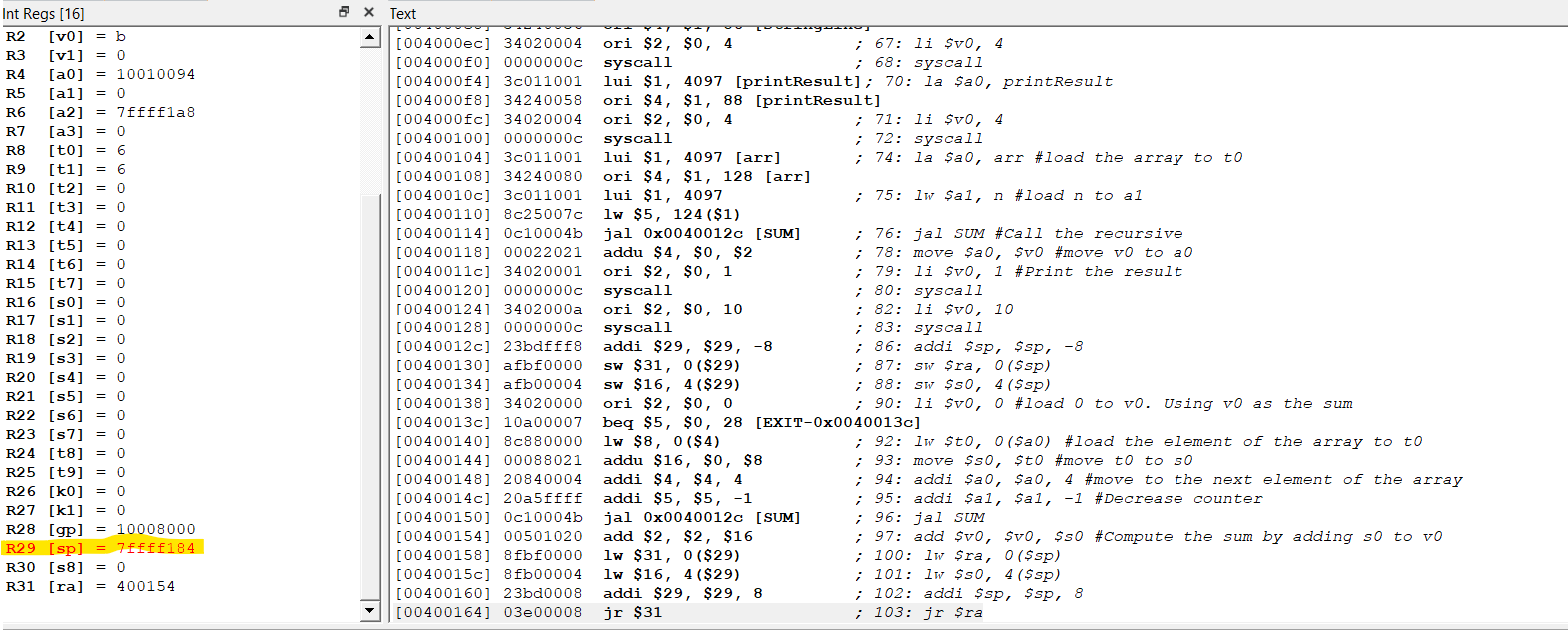
Now using all the value contain in the stack. The stack pointer is stored back to memory address [7ffff174]

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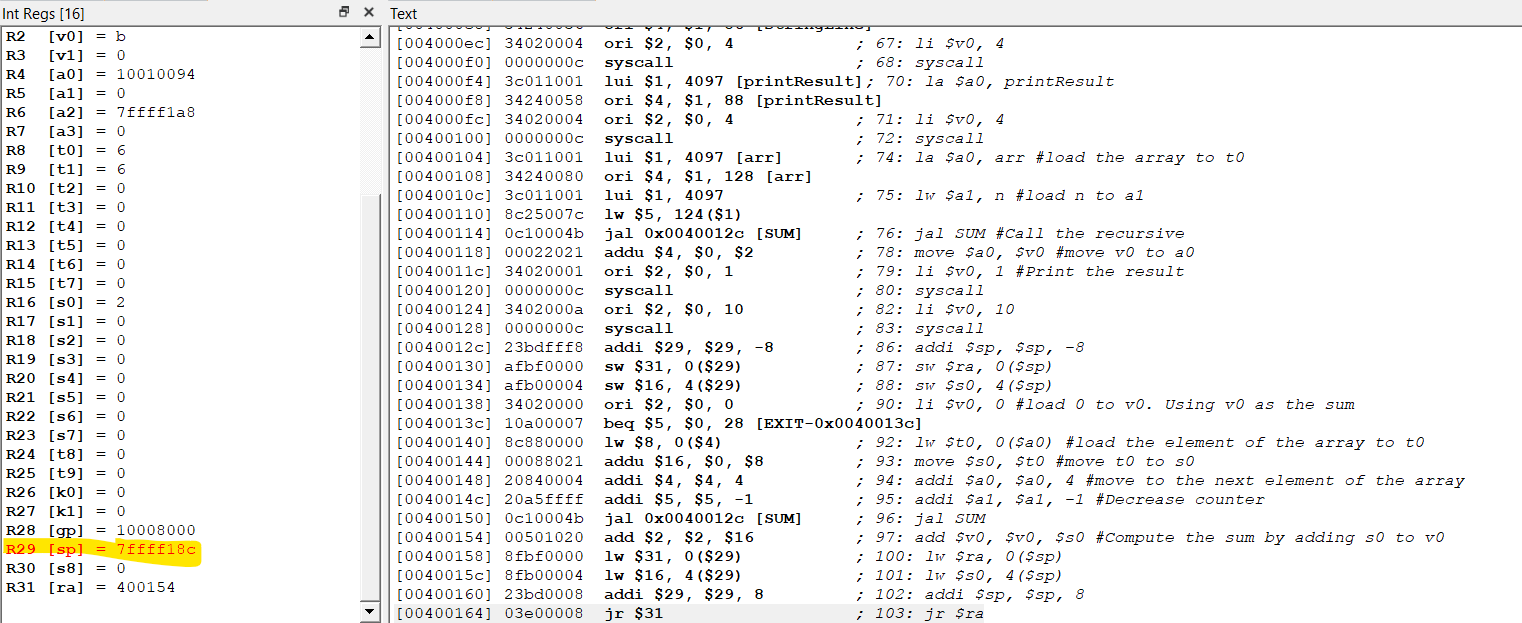
After the add operation, the stack pointer is stored back to memory address [7ffff17c]

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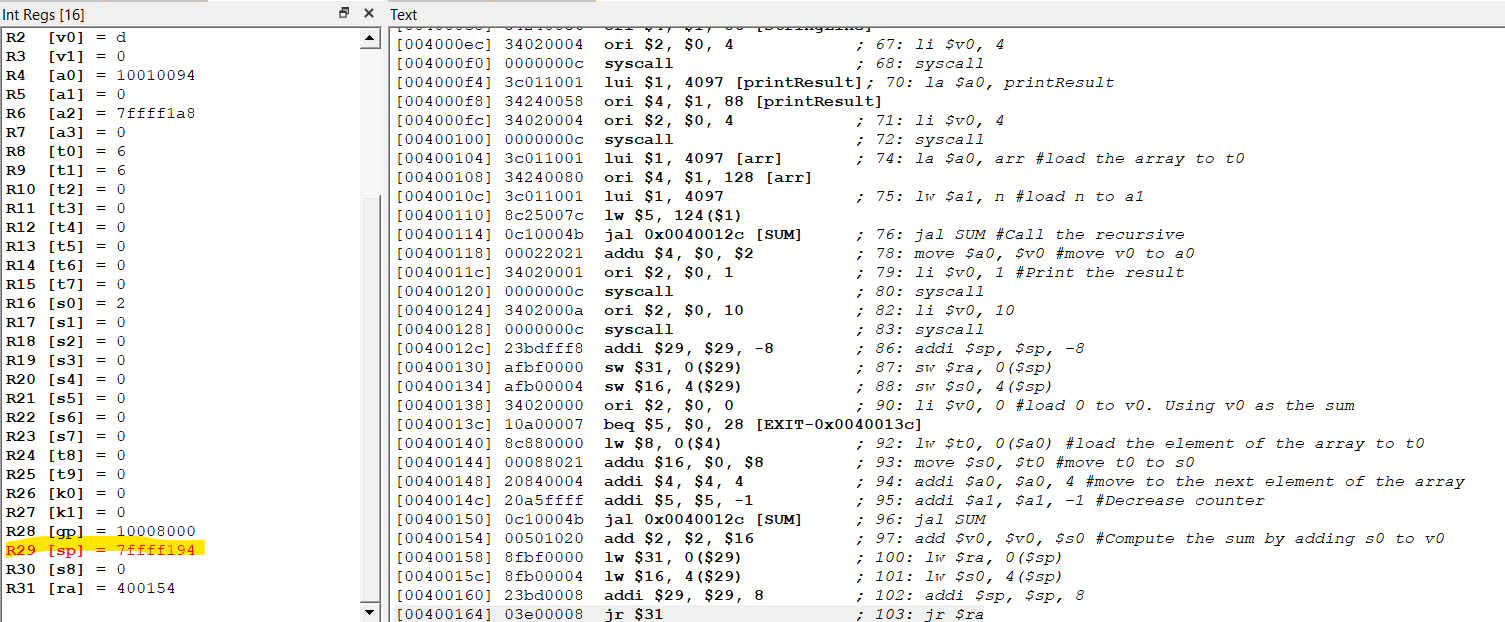
After the add operation, the stack pointer is stored back to memory address [7ffff184]

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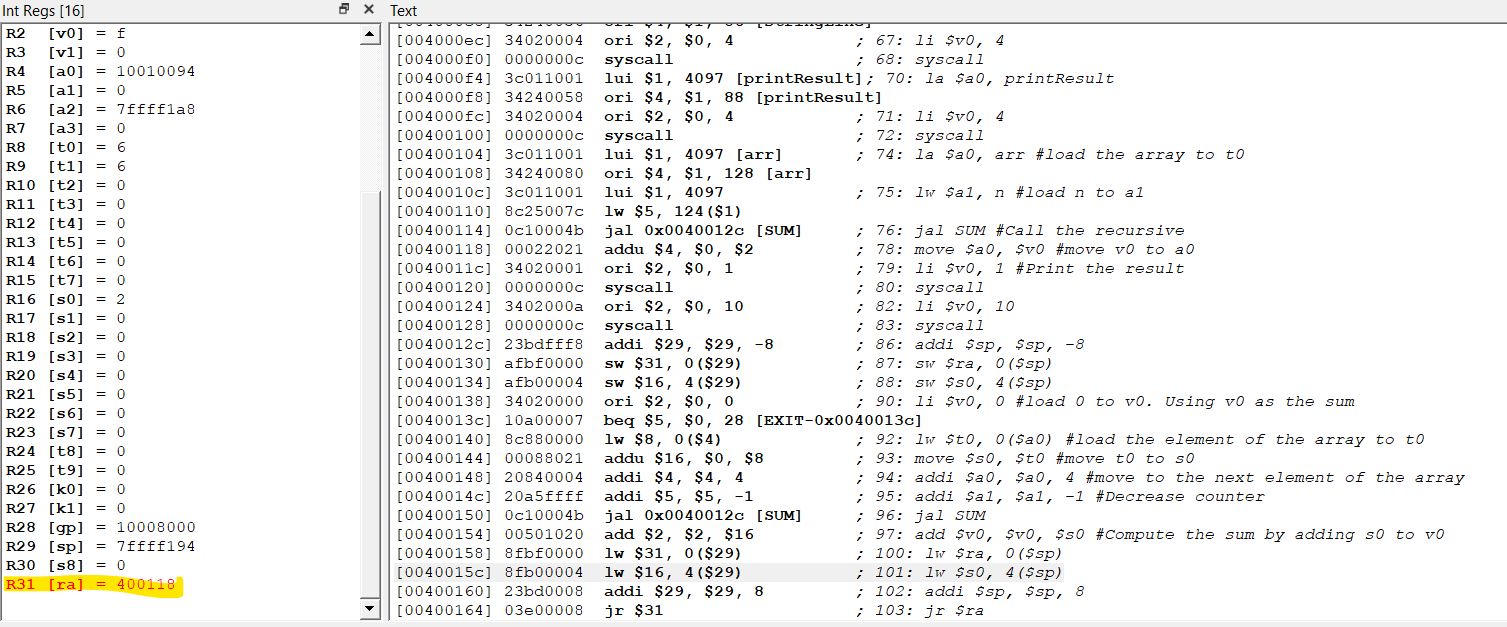
After the add operation, the stack pointer is stored back to memory address [7ffff18c]

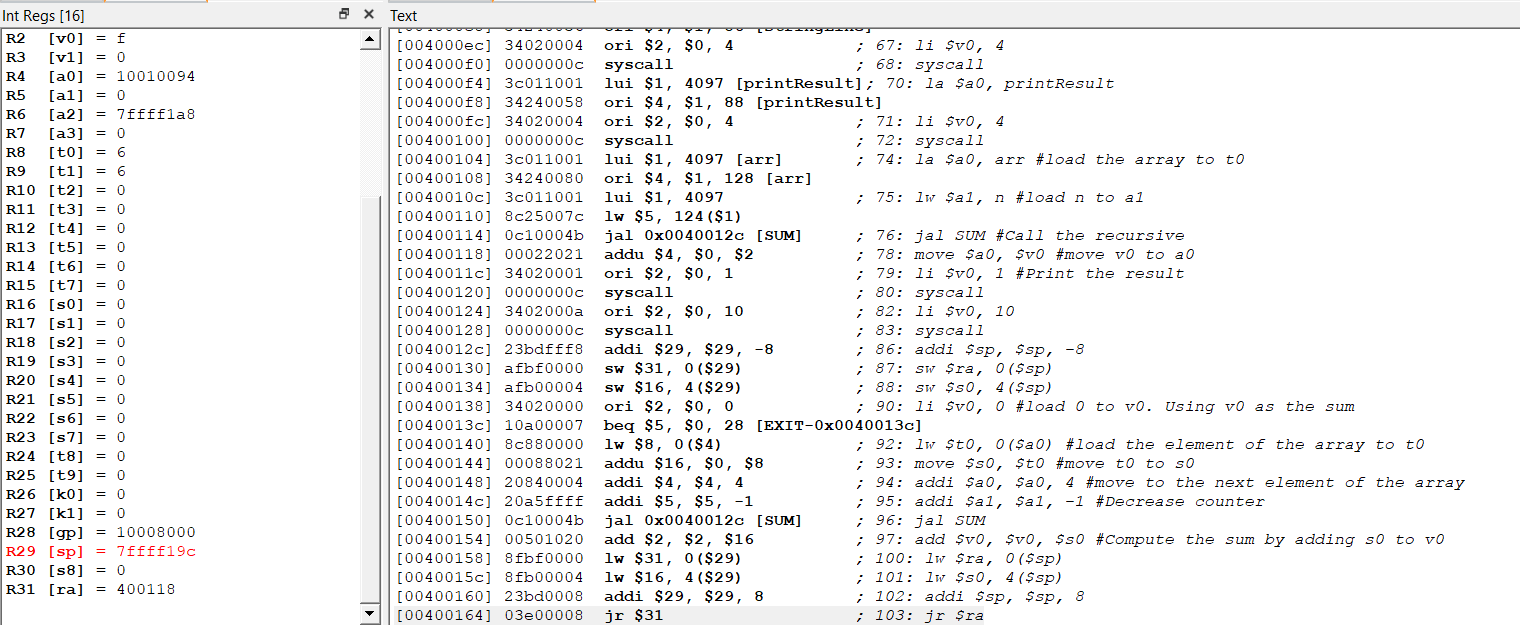
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After the add operation, the stack pointer is stored back to memory address [7ffff194]

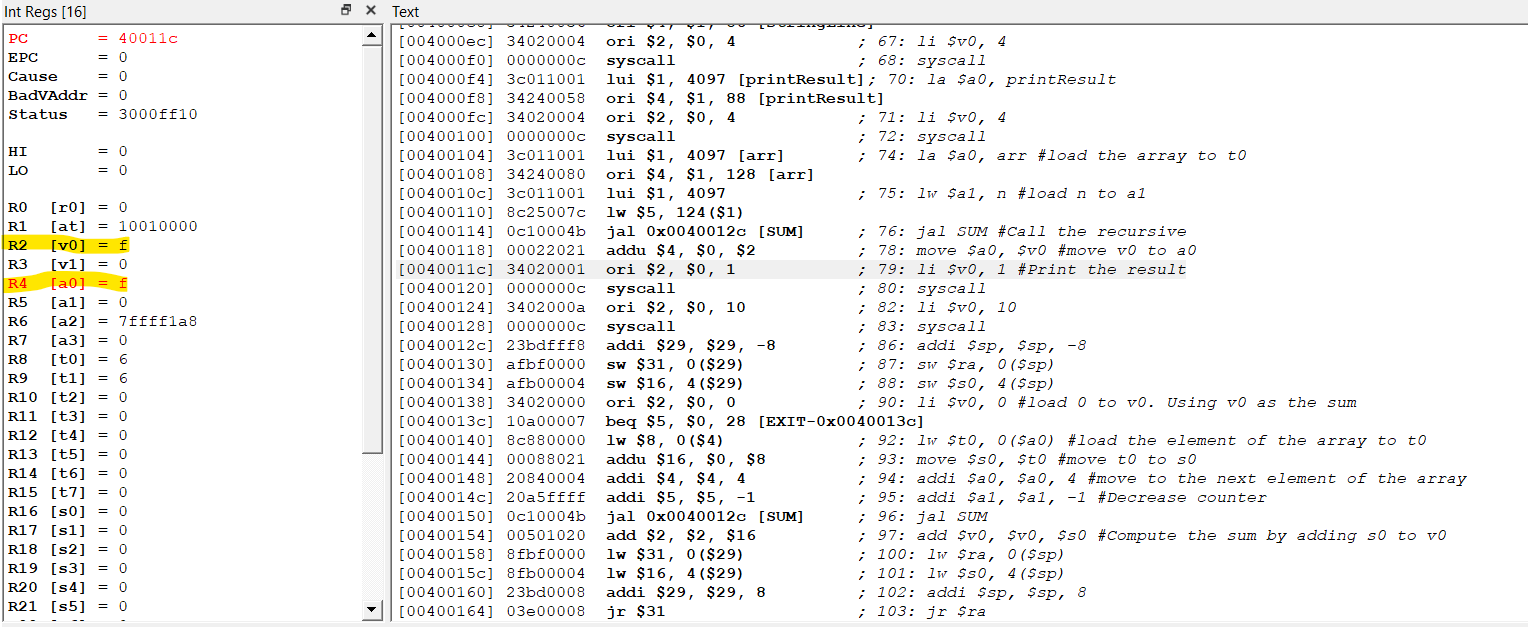
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After the add operation, the stack pointer is stored back to memory address [7ffff19c] and the return address is stored back to memory address [00400118] as callee of the main function.

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The register v0 and a0 now contain the result

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