

HW4.2. RISC-V Assembly Translation

Given the following C code:

```
int A[20]; //Assume that A is located at address 0x8000
int sum = 0;
int i = 19;
while(i >=0)
{
    sum += A[i];
    i--;
}
```

Complete the corresponding RISC-V code:

1. add x9, x0, x0

2. addi x10, x0, 19

3. li x11, 0x804C #Address of A[19]

4. Loop:

Q1.1:

x10, x0, Done

6. lw x12, 0(x11)

Q1.2:

addi x10, x10,

Q1.3:

addi x11, x11,

9. add x9, x9, x12

10. j Loop

11. Done:

Save & Grade 20 attempts left

Save only

Additional attempts available with new variants ?

Homework 4

Assessment overview

Total points: 8/100

Score: 8%

Question

Value: 12

History:

Awarded points: 0/12

Report an error in this question

Previous question

Next question

Attached files

No attached files

Attach a file

Attach text