c : $a2
n : $a1
i : $s2

```
sw  $a0 , 8($sp)
sw  $a1 , 4($sp)
sw  $a2 , 0($sp)
```

```
addi  $sp , $sp , -4
sw    $ra, 0($sp)
|                                  i<n , t0 = 1
addi  $s2 , $zero, 1  <- i=1       i>n , t0 = 0
Loop:
slt   $t0 , $s2 , $a1   } i<n
beq   $t0 , $zero , EXIT
sll   $t1 , $s2 , 2     <- i*4 = t1
addi  $t2 , $s2 , -1    <- i-1
sll   $t2 , $t2 , 2     <- (i-1)*4 = t2
lw    $t3 , $t1($a0)    a[i]
lw    $t4 , $t2($a0)    a[i-1]
add   $t3 , $t3 , $t4   a[i] = a[i] + a[i-1]
sw    $t3 , $t1($a0)
addi  $s2 , $2 , 1
J Loop
```

```
Exit:
addi  $t0 , $a1 , -1  <- n-1
sll   $t1 , $t0 , 2   <- (n-1)*4
lw    $t1 , $t0($a0)  <- a[n-1]
slt   $t2 , $a2 , $t1        c < a[n-1]
beq   $t2 , $zero , ELSE
addi  $v0 , $zero , 0
J ExitF
ELSE: addi $v0 , $zero , 1
ExitF:
lw $ra , 0($sp)
addi $sp , $sp , 4
jr $ra
```