

CA Lab Homework 1

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a

```
begin:  addi $s0,$zero,0      # $s0 = 0
        addi $s1,$zero,1      # $s1 = 1
loop:   slt  $t0,$a0,$s1      # if the $a0 is less than $s1, set $t0 to 1
        bne $t0,$zero,finish  # if $t0 is not equal to 0, branch to 'finish'
        add  $s0,$s0,$s1      # increment $s0 by $s1
        addi $s1,$s1,2        # increment $s1 by 2
        j    loop            # jump back to the start of the loop
finish: add  $v0,$s0,$zero     # store the value of $s0 in $v0
```

b

```
int sum = 0;
for (int i = 0; i < n; i += 2) {
    sum += i;
}
return sum;
```

c

This program computes the sum of all odd numbers from 0 to n .