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#Chuong trinh: for-Fibonacci (pointer)
#-----
#Data segment
    .data
#Cac dinh nghia bien
int_f: .space 80 #20 phan tu word
int_n: .word 7
int_fn: .word 13
#Cac cau nhac nhap du lieu
Nhac_n: .asciiz "Nhap n: "
Nhac_kq1: .asciiz "Fibo("
Nhac kq2: .asciiz ") = "
Ngan: .asciiz "\n=======\n"
#-----
#Code segment
    .text
     .globl main
main:
#Nhap (syscall)
#Xu ly
  \#f[0]=0
        a1, int f #fptr=addr(a[0])
    la
    sw $zero,0($a1)
  #f[1]=1
    addi $t0,$zero,1
        $t0,4($a1)
  # t0=f[i-1]/kq, t1=n, t2=f[i-2], t3=i, a1=addr(f[i])
    addi $t1,$zero,19
  # for1
  #init1
    addi $t3,$zero,2  #i=2
addi $a1,$a1,8  #fptr=addr(a[2x4])
  \#cond1 (i<=n)->(i-n<=0)-> DK dao:(i-n>0) go end for
cond1:
    sub $t0,$t3,$t1
                      #i-n>0
    bgtz $t0,end for1 # ket thuc for
  #body1
    # f[i]=f[i-1]+f[i-2]
    lw $t0,-4($a1) #f[i-1]
    1w $t2, -8 ($a1)
                      #f[i-2]
    add $t0,$t0,$t2
    # cat kq
    sw $t0,0($a1)
  #loop1
    addi $t3,$t3,1
                      #1++
                   #fptr+=4
    addi $a1,$a1,4
    j cond1
  #end for1
end for1:
lamlai:
  #Nhap n
        $a0,Nhac n
    addi $v0,$zero,4
    syscall
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```
addi $v0,$zero,5
    syscall
    SW
        $v0, int n
#Xuat ket qua (syscall)
xuat kq:
    la
        $a0, Nhac kq1
    addi $v0,$zero,4
    syscall
         $a0, int n
    lw
    addi $v0,$zero,1
    syscall
        $a0, Nhac kq2
    addi $v0,$zero,4
    syscall
    #lw $a0,int fn
    # xac dinh f[n] theo n
    la $a1,int_f #addr(f[0])
lw $t0,int_n #n
    addi $t1,$zero,4
                      #n*4
    mul $t0,$t0,$t1
    add $a1,$a1,$t0 #addr(f[n])
    lw $a0,0($a1)
    addi $v0,$zero,1
    syscall
# lam lai
    la
       $a0,Ngan
    addi $v0,$zero,4
    syscall
    j lamlai
#ket thuc chuong trinh (syscall)
Kthuc: addi $v0,$zero,10
    syscall
#-----
```