```
#Chuong trinh: for-Fibonacci (pointer)
#-----
         .include "macro.mac"
#Data segment
         .data
#Cac dinh nghia bien
int_f: .space 80 #20 phan tu word
int_n: .word 13
#Cac cau nhac nhap du lieu
#-----
#Code segment
      .text
main:
#Nhap (syscall)
#Xu ly
  #f[0]=0
                 $a1, int f #fptr=addr(f[0])
         la
               $zero,0($a1)
         SW
  #f[1]=1
                $t0,$zero,1
         addi
                  $t0,4($a1)
         SW
  # a1=addr(f[i]),t0=f[i],t1=f[i-1],t2=f[i-2],t3=i,t4=20
  # for(i=2;i<20;i++)
         addi $t3,$zero,2
addi $a1,$a1,8
addi $t4,$zero,20
                               #i=2
                               #fptr=addr(f[2])
  #fcond
fcond: beq $t3,$t4,endfor
  #fbody
    # f[i]=f[i-1]+f[i-2]
         lw $t1,-4($a1)
                               #f[i-1]
               $t2,-8($a1) #f[i-2]
$t0,$t1,$t2
         lw
         add
                 $t0,0($a1)
                               #cat f[0]
         SW
  #floop
                $t3,$t3,1 #i++
$a1,$a1,4 #fptr+=4
         addi
         addi
                 fcond
         j
  #endfor
endfor:
#Xuat ket qua (syscall)
lamlai:
  #Nhap n
         geti p
                 nhap n,int n
  #Xuat ket qua
         puti_p xuat_f1,int_n
puts xuat_f2
         lw
                 $t0,int n
                                #n
         addi
         addi $t1,$zero,4 #n*4 mul $t0,$t0,$t1
```