Báo cáo thi giữa kì KTMT

A-6

Code

```
.data
Message1: .asciiz "Nhap gia tri a: "
Message2: .asciiz "Nhap gia tri b: "
Message3: .asciiz "Nhap gia tri c: "
Message4: .asciiz "Khong phai la tam giac!"
Message5: .asciiz "La tam giac!"
.text
check_input_a:    addi $v0, $zero, 51           # Doc gia tri a
            la $a0, Message1
            syscall
            bne $a1, $zero, check_input_a # Neu $a1 != 0 thi gia tri a khong phai la so nguyen, nhap lai
            nop
            add $s1, $zero, $a0           # Luu gia tri a vao thanh ghi $s1

check_input_b:    addi $v0, $zero, 51           # Doc gia tri b
            la $a0, Message2
            syscall
            bne $a1, $zero, check_input_b # Neu $a1 != 0 thi gia tri b khong phai la so nguyen, nhap lai
            nop
            add $s2, $zero, $a0           # Luu gia tri b vao thanh ghi $s2

check_input_c:    addi $v0, $zero, 51           # Doc gia tri c
            la $a0, Message3
```

```
            syscall
            bne $a1, $zero, check_input_c # Neu $a1 != 0 thi gia tri c khong
phai la so nguyen, nhap lai
            nop
            add $s3, $zero, $a0           # Luu gia tri c vao thanh ghi $s3


main:
            blt $s1, 1, no                # Neu a < 0 thi khong phai la tam
giac
            blt $s2, 1, no                # Neu b < 0 thi khong phai la tam
giac
            blt $s3, 1, no                # Neu c < 0 thi khong phai la tam
giac


            add $t1, $s1, $s2       # $t1 = a + b
            bge $s3, $t1, no        # Neu c >= a + b thi khong phai la tam
giac
            nop
            add $t1, $s2, $s3       # $t1 = b + c
            bge $s1, $t1, no        # Neu a >= b + c thi khong phai la tam
giac
            nop
            add $t1, $s1, $s3       # $t1 = a + c
            bge $s2, $t1, no        # Neu b >= a + c thi khong phai la tam
giac
            nop


yes:
            addi $v0, $zero, 55           # Hien thi Message5 ra man hinh
            la $a0, Message5
            addi $a1, $zero, 1
            syscall
```

```
            j done
            nop
no:
            addi $v0, $zero, 55          # Hien thi Message4 ra man hinh
            la $a0, Message4
            addi $a1, $zero, 0
            syscall
done:
```

Nếu a, b, c <0 thì không phải là tam giác

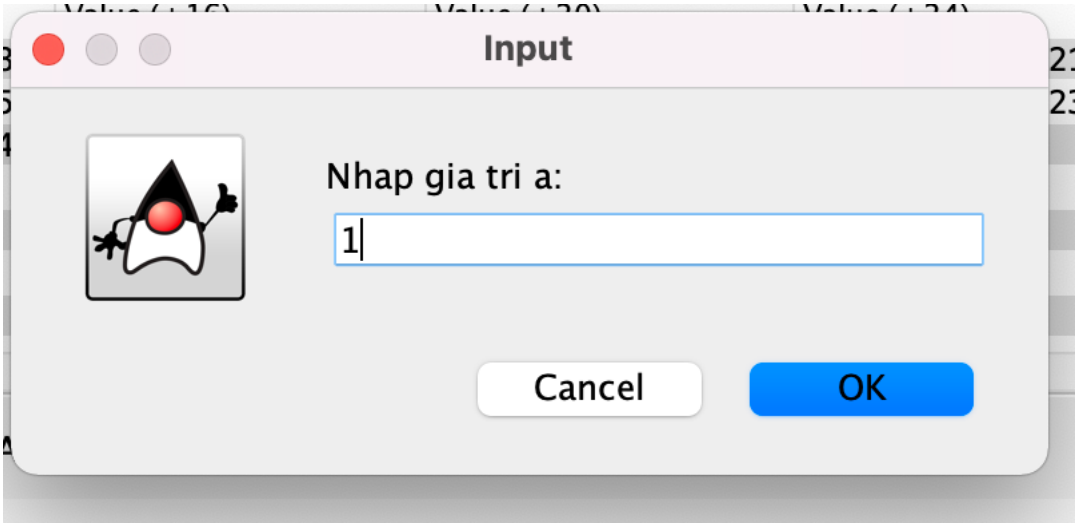
A+b <= c || b+c <= a || a+c <= b thì không phải là tam giác .

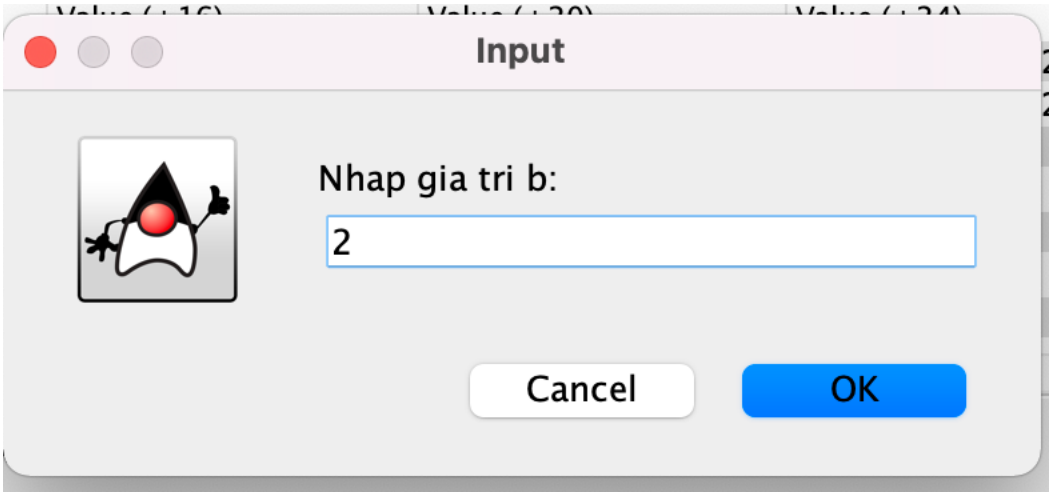
Còn lại là tam giác.

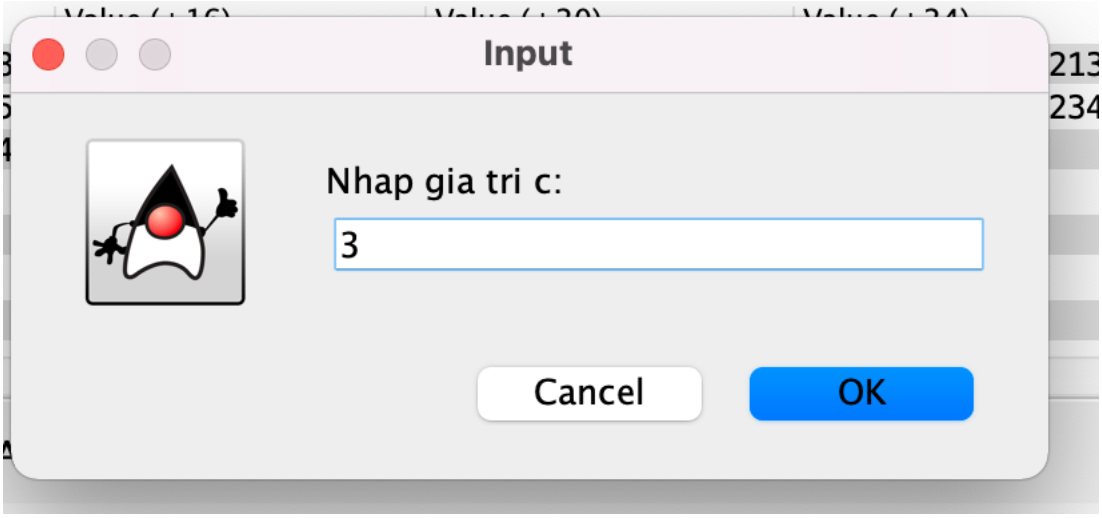
Kết quả :

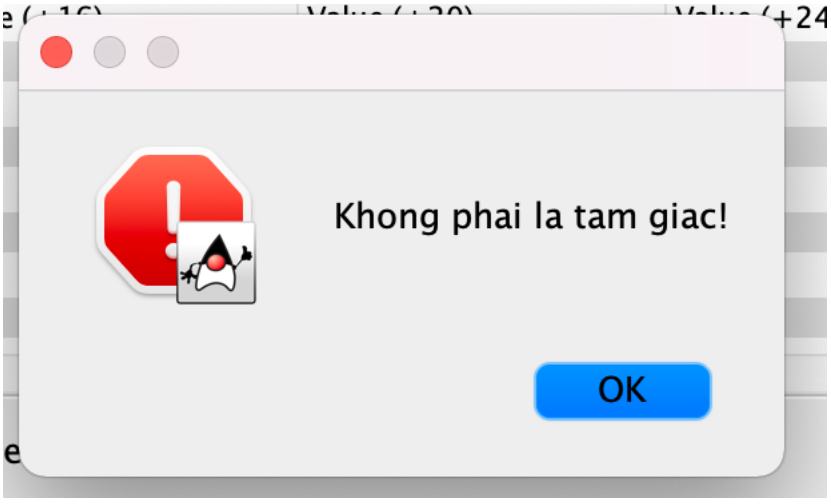
Đầu vào : a=1 , b=2 , c=3 .

Kết quả: không phải tam giác.



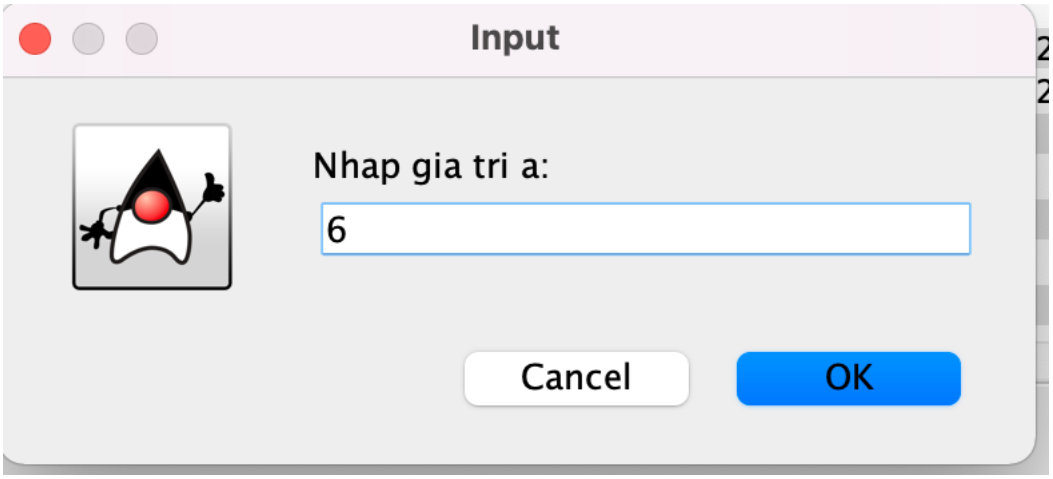

Input
Nhap gia tri b:
2
Cancel
OK

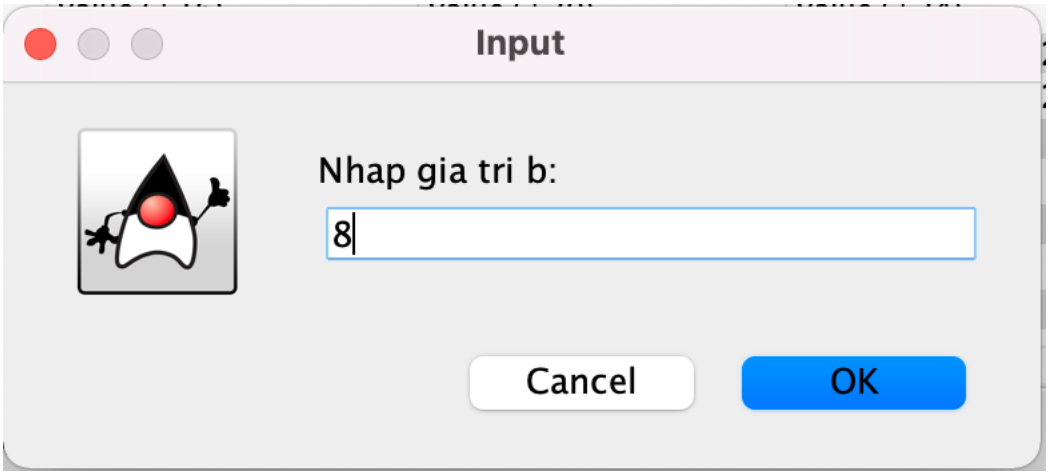

Input
Nhap gia tri c:
3
Cancel
OK

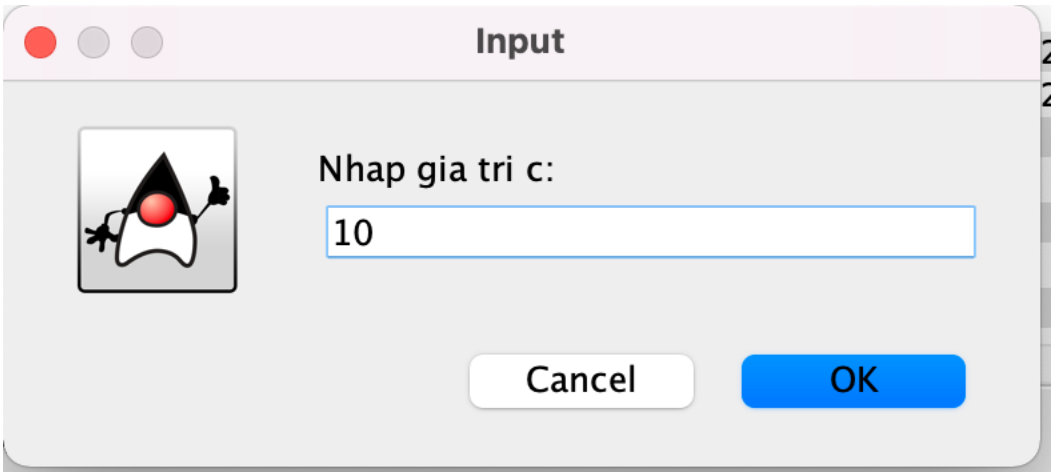

Khong phai la tam giac!
OK

Đầu vào : a=6 , b=8 , c=10.

Kết quả : là một tam giác.







B-7

Code

```
.data
msg_input: .asciiz "Nhap So Luong Phan Tu Mang: "
msg_input2: .asciiz "Nhap Phan Tu: "
space: .asciiz "\t"
arr: .word 0:100
.text
main:
# Nhap So Luong Phan Tu
      la $a0,msg_input
      li $v0,4
      syscall
# Chuyen qua thanh ghi $t0
      li $v0,5
      syscall
      move $t0,$v0
# Nhap cac phan tu cua mang
      li $v0,4
      la $a0,msg_input2
      syscall
```

```
      li $t1,0
      la $t2,arr
lap:
      li $v0,5
      syscall
      sw $v0,($t2)
      addi $t1,$t1,1
      addi $t2,$t2,4
      blt $t1,$t0,lap
# xu ly
      li $t1,0
      la $t2,arr
xuly:
      lw $t4,($t2)
      ble $t4,$t3,tiep
# input on display
      li $v0,1
      move $a0,$t4
      syscall
# KHoang Trang
      li $v0,4
      la $a0,space
      syscall
tiep:
      addi $t1,$t1,1
      addi $t2,$t2,4
      blt $t1,$t0,xuly
      li $v0,10
      syscall
```

Kết quả :

```
Nhap So Luong Phan Tu Mang: 5
Nhap Phan Tu: 1
2
3
4
5
1       2       3       4       5
-- program is finished running --
```

C-4 :

Code

```
.data
Message1: .asciiz " Nhap xau s1:"
Message2: .asciiz "Nhap xau s2:"
string: .space 100
.text
li $v0 , 54
la $a0 , Message1
la $a1 , string
la $a2 , 100
syscall

li $v0, 54
la $a0, Message2
la $s1, string
```

```
la $a2 , 100
syscall
```

Kết quả :