Trabajo Final Integrador

Diagramas de Flujo

Complejidad Ciclomática

Carrera: Ingeniería en Computación
Profesores: Ivan Nomdedeu - Ignacio Catalano
Estudiantes:

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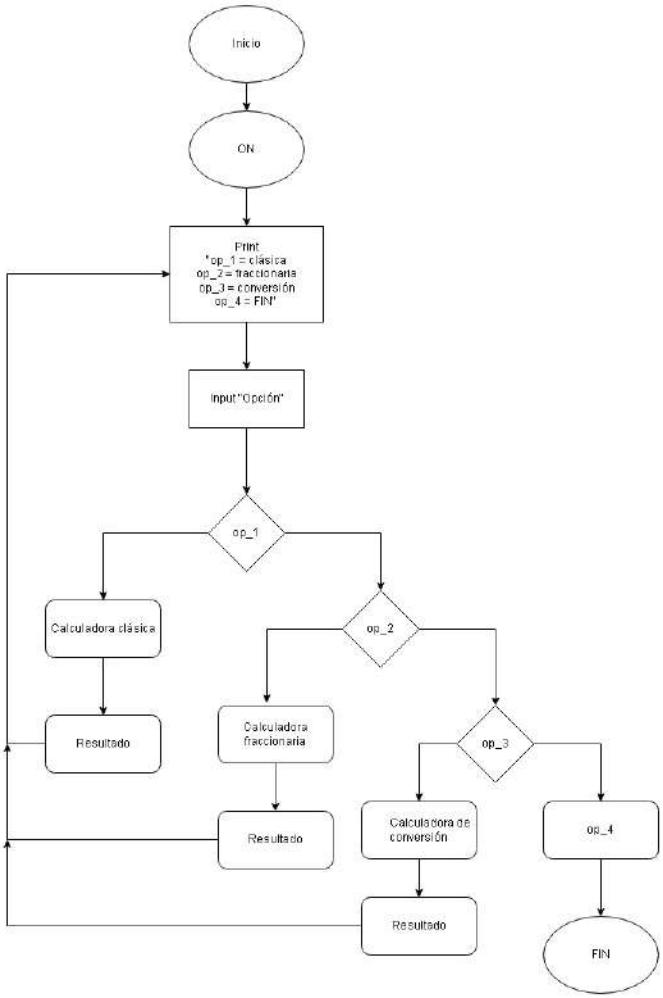
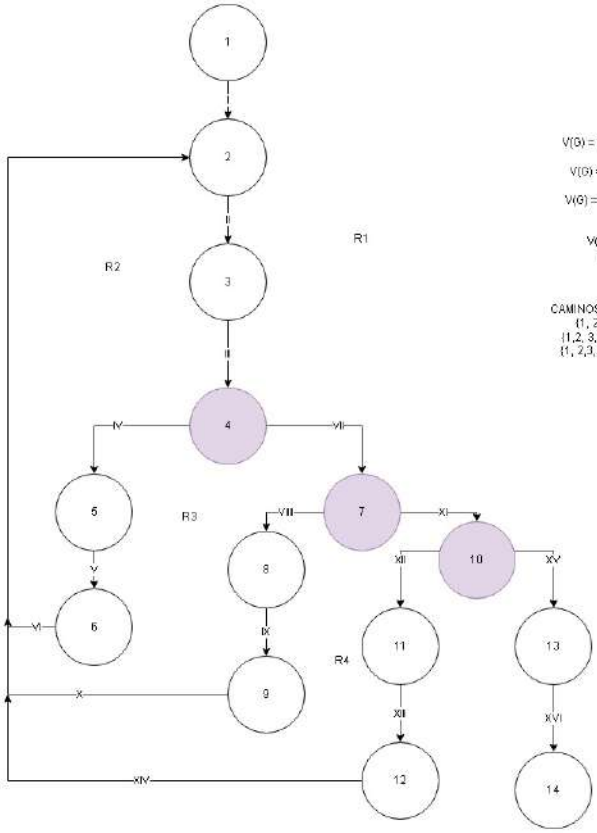
- **Mario Roman Traversaro**
- **Bruno Delvo**
- **Victoria Daysi de las Nieves Juarez Ricouz**





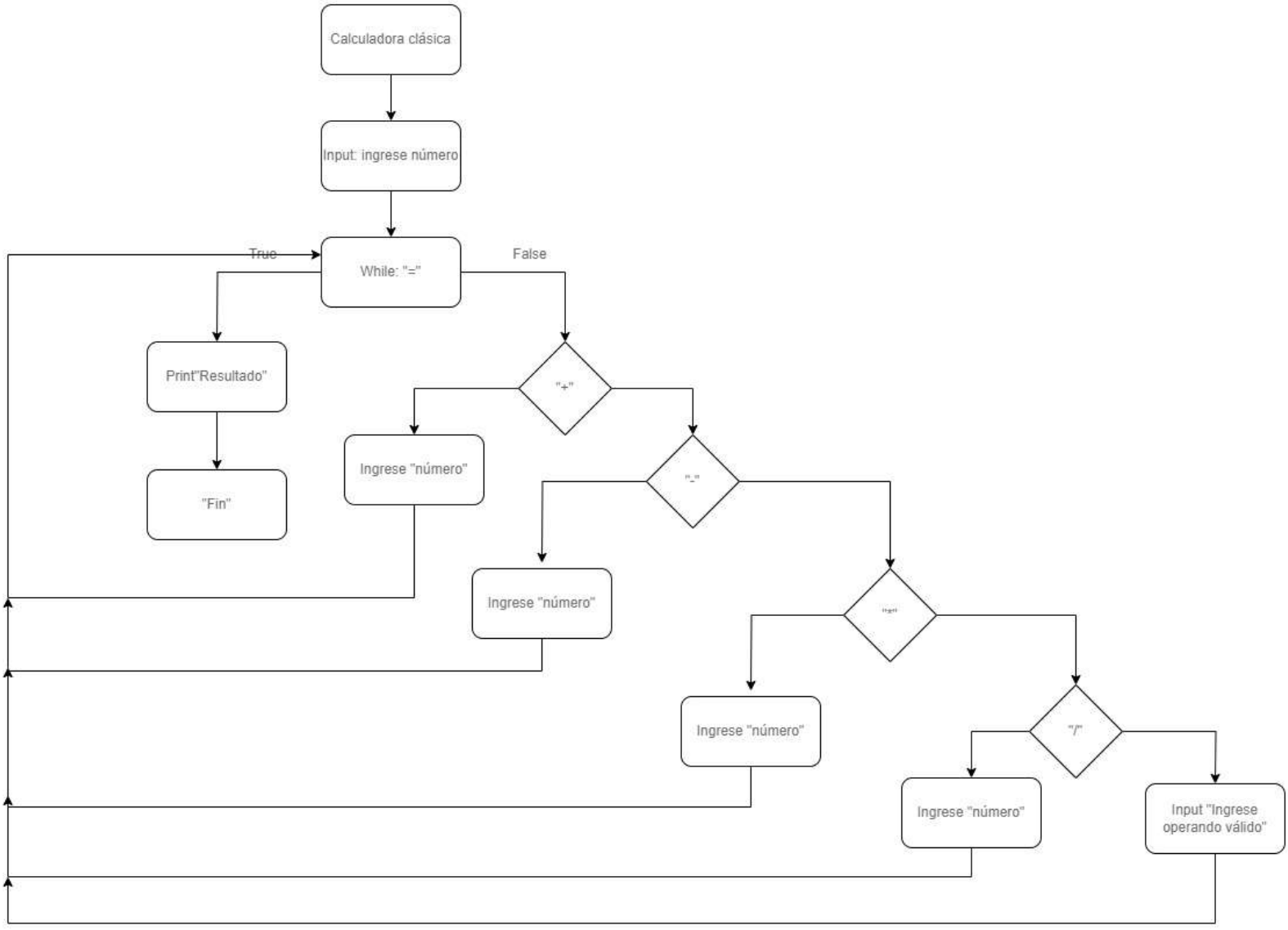
V(G) = Regiones = 4

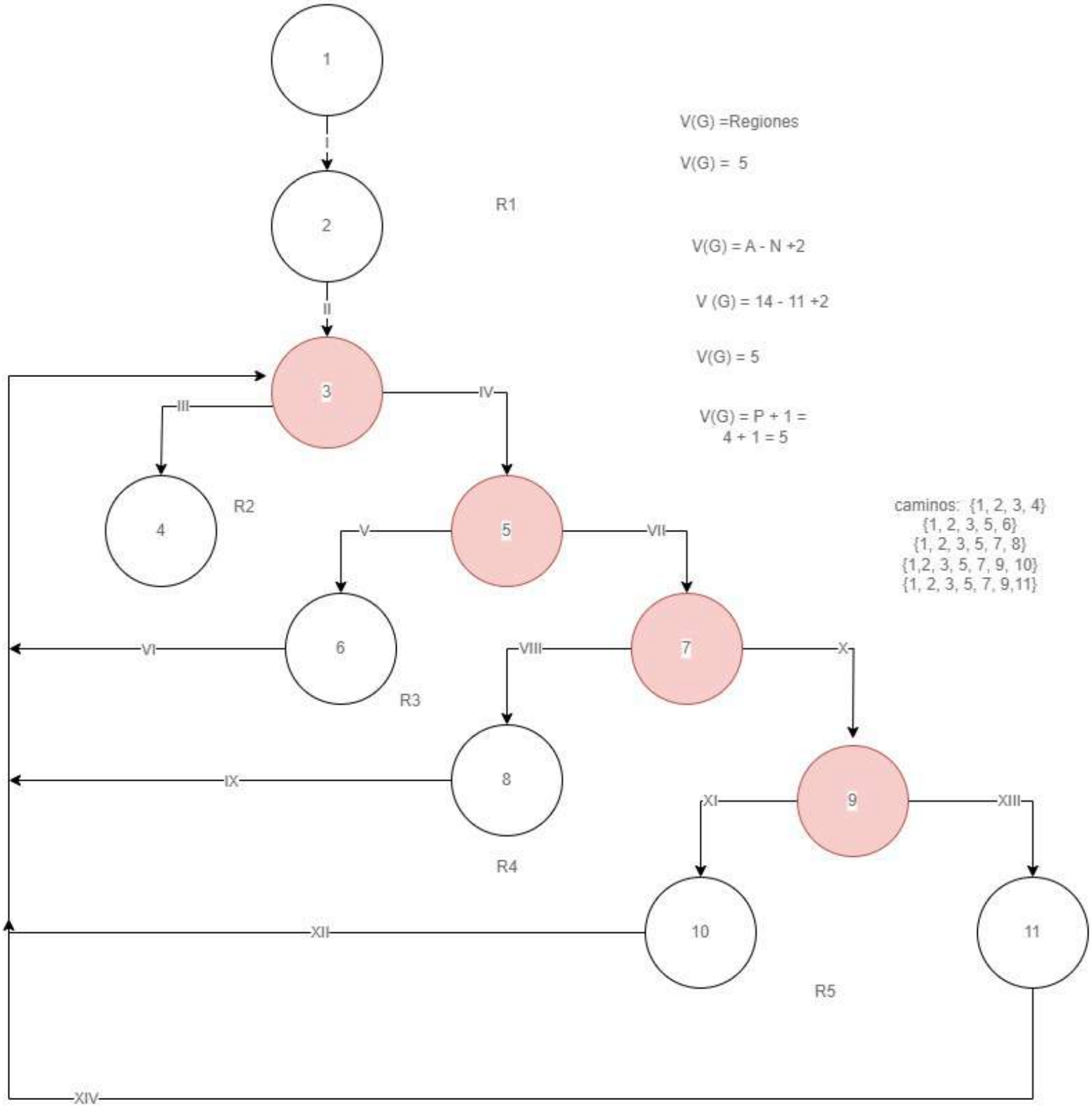
V(G) = A - N + 2 =

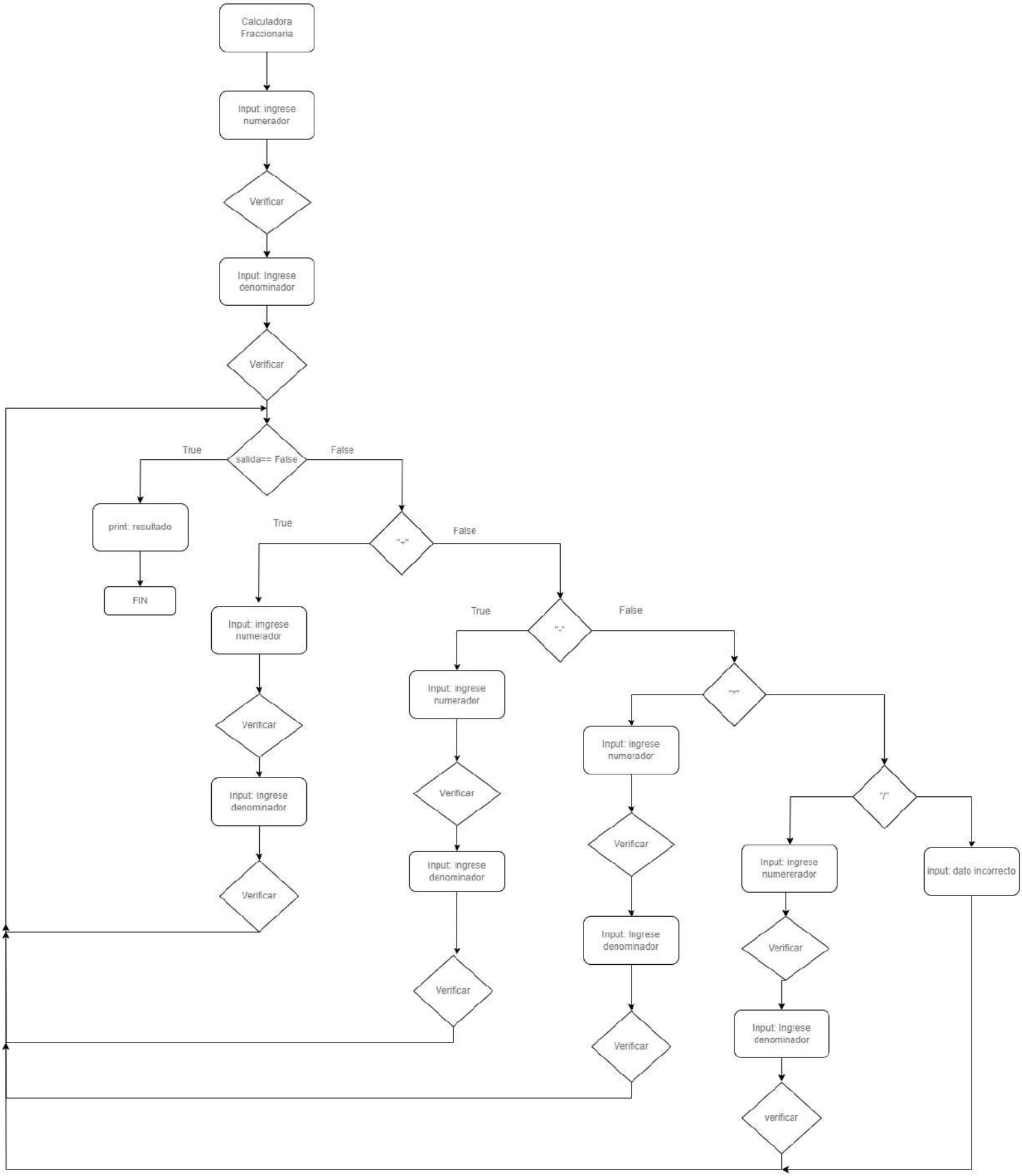
V(G) = 16 - 14 + 2 = 4

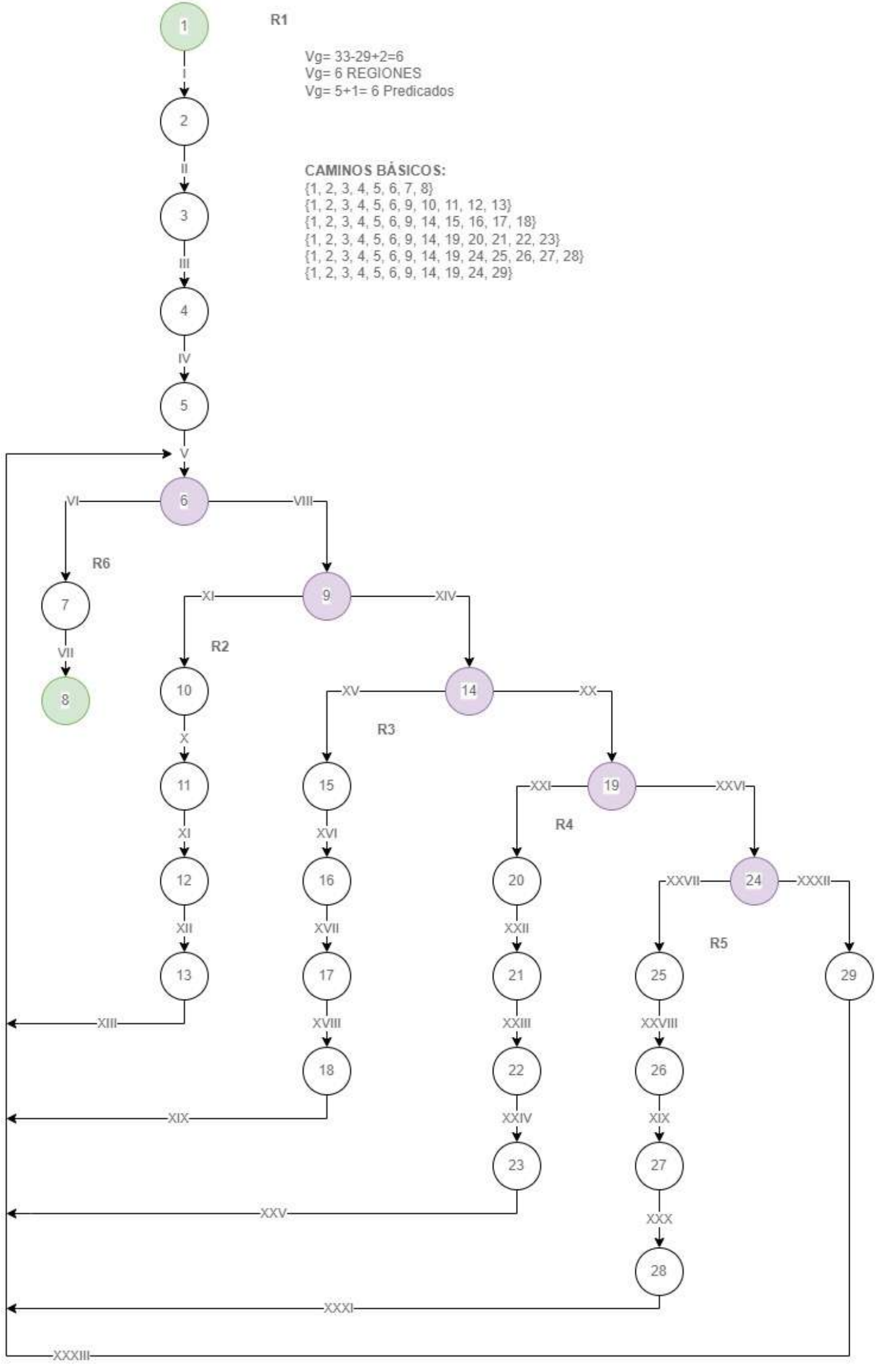
V(G) = P + 1
V(G) = 4

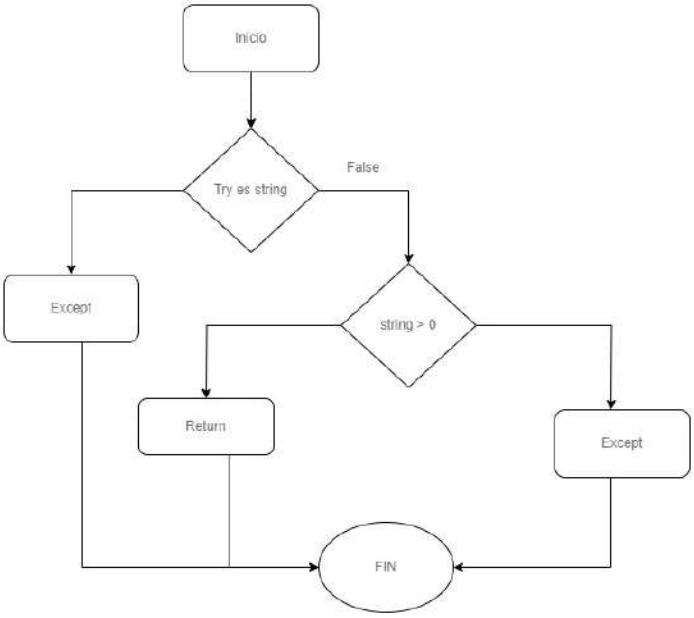
CAMINOS = {1, 2, 3, 4, 5, 6}
{1, 2, 3, 4, 7, 8, 9}
{1,2, 3, 4, 7, 10, 11, 12}
{1, 2,3, 4, 7, 10, 13, 14}

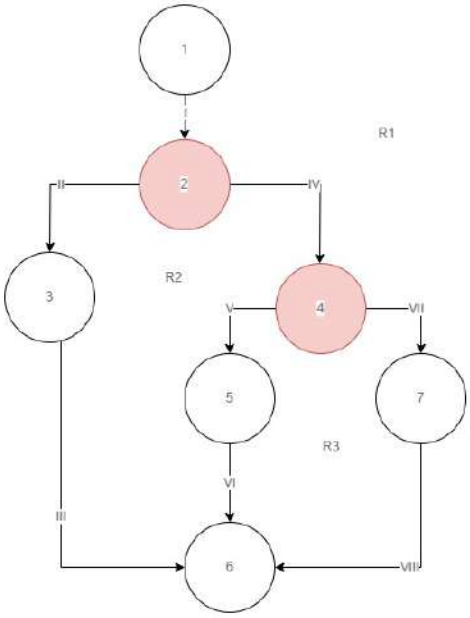

Calculadora clásica
Input: ingrese número
While: "="
True
False
Print"Resultado"
"Fin"
"+"
Ingrese "número"
"-"
Ingrese "número"
Ingrese "número"
"/"
Ingrese "número"
Input "Ingrese operando válido"


1
I
2
II
3
III
IV
4
R2
5
V
VII
6
VI
7
VIII
X
R3
8
IX
9
XI
XIII
R4
10
11
XII
R5
XIV
V(G) =Regiones
V(G) = 5
R1
V(G) = A - N +2
V (G) = 14 - 11 +2
V(G) = 5
V(G) = P + 1 =
4 + 1 = 5
caminos: {1, 2, 3, 4}
{1, 2, 3, 5, 6}
{1, 2, 3, 5, 7, 8}
{1,2, 3, 5, 7, 9, 10}
{1, 2, 3, 5, 7, 9,11}


Calculadora Fraccionaria
Input: ingrese numerador
Verificar
Input: Ingrese denominador
Verificar
salida== False
True
False
print: resultado
FIN
"+"
True
False
Input: imgrese numerador
Verificar
Input: Ingrese denominador
Verificar
"-"
True
False
Input: ingrese numerador
Verificar
Input: ingrese denominador
Verificar
"*"
Input: ingrese numerador
Verificar
Input: Ingrese denominador
Verificar
"/"
Input: ingrese numererador
Verificar
Input: Ingrese denominador
verificar
input: dato incorrecto


R1
Vg= 33-29+2=6
Vg= 6 REGIONES
Vg= 5+1= 6 Predicados
CAMINOS BÁSICOS:
{1, 2, 3, 4, 5, 6, 7, 8}
{1, 2, 3, 4, 5, 6, 9, 10, 11, 12, 13}
{1, 2, 3, 4, 5, 6, 9, 14, 15, 16, 17, 18}
{1, 2, 3, 4, 5, 6, 9, 14, 19, 20, 21, 22, 23}
{1, 2, 3, 4, 5, 6, 9, 14, 19, 24, 25, 26, 27, 28}
{1, 2, 3, 4, 5, 6, 9, 14, 19, 24, 29}
R6
R2
R3
R4
R5
I
II
III
IV
V
VI
VII
VIII
XI
XIV
X
XII
XIII
XV
XX
XVI
XVII
XVIII
XIX
XXI
XXVI
XXII
XXIII
XXIV
XXV
XXVII
XXXII
XXVIII
XXX
XXXI
XXXIII





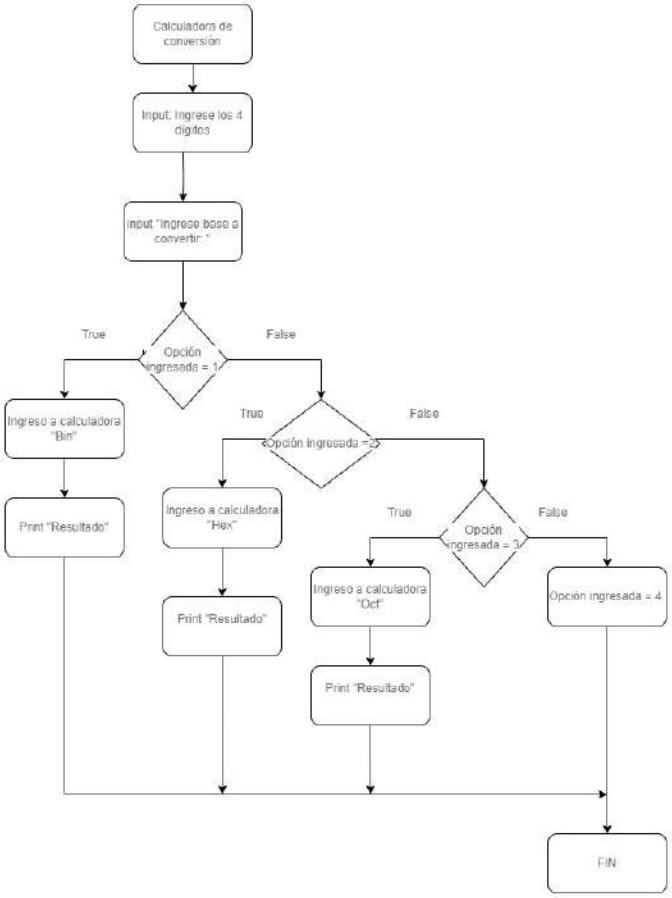
V(G) = Regiones =3

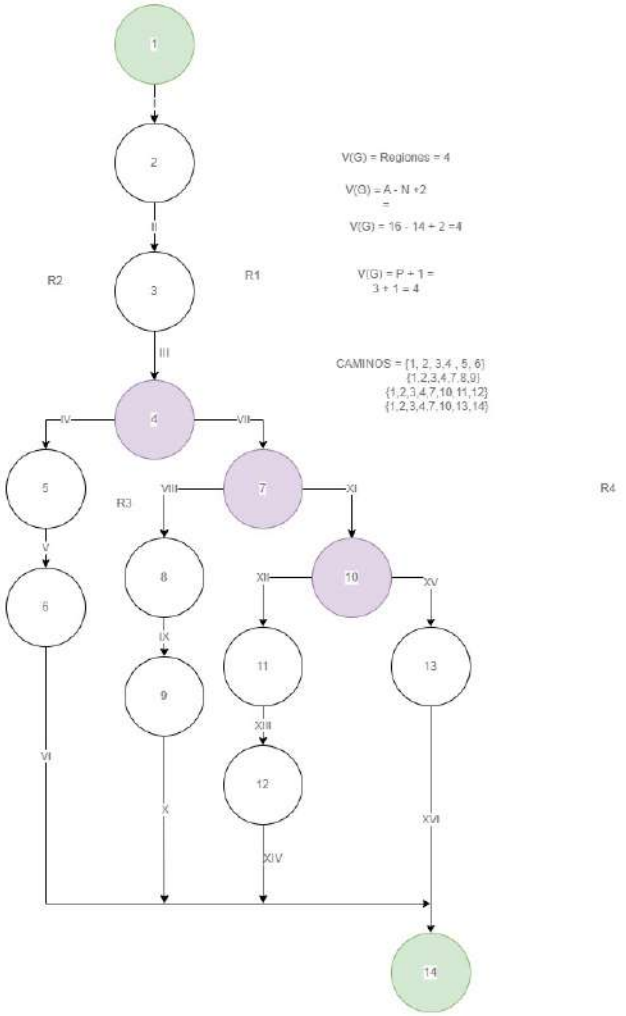
V(G) = A - N +2

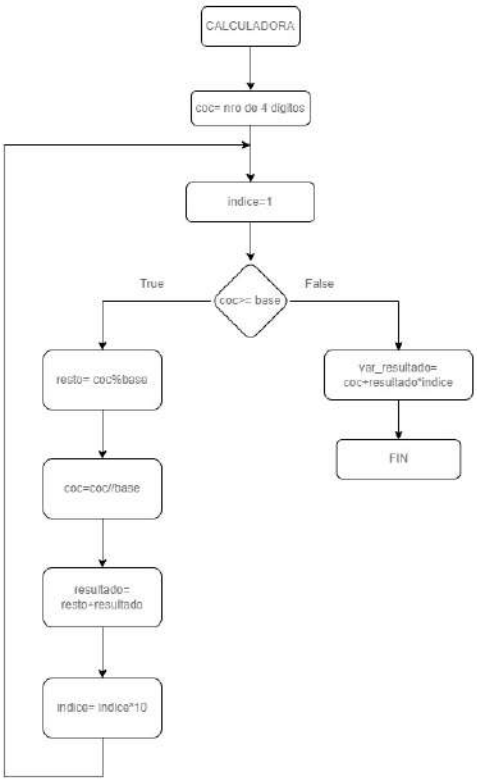
V(G) = 8 - 7 + 2 =3

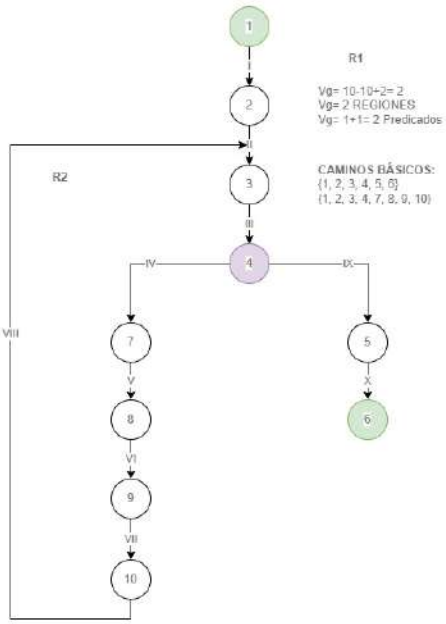
V(G) = P + 1 =
V(G) = 2 + 1 = 3

CAMINOS =
{1,2, 3}
{1,2,4,5, 6}
{1,2,4,7}


Calculadora de conversion
Input: Ingrese los 4 digitos
Input "Ingrese base a convertir: "
Opción ingresada = 1
True
False
Ingreso a calculadora "Bin"
Print "Resultado"
Opción ingresada = 2
True
False
Ingreso a calculadora "Hex"
Print "Resultado"
Opción ingresada = 3
True
False
Ingreso a calculadora "Oct"
Print "Resultado"
Opción ingresada = 4
FIN


1
I
2
II
3
III
4
IV
VII
5
V
6
VI
R3
VIII
7
XI
R4
8
IX
9
X
XII
10
XV
11
XIII
12
XIV
13
XVI
14
R2
R1
V(G) = Regiones = 4
V(G) = A - N +2
=
V(G) = 16 - 14 + 2 =4
V(G) = P + 1 =
3 + 1 = 4
CAMINOS = {1, 2, 3,4 , 5, 6}
{1,2,3,4,7,8,9}
{1,2,3,4,7,10,11,12}
{1,2,3,4,7,10,13,14}


CALCULADORA
coc= nro de 4 digitos
indice=1
coc>= base
True
False
resto= coc%base
coc=coc//base
resultado= resto+resultado
indice= indice*10
var_resultado= coc+resultado*indice
FIN


1
I
2
II
3
III
4
IV
IX
7
V
8
VI
9
VII
10
VIII
5
X
6
R2
R1
Vg= 10-10+2= 2
Vg= 2 REGIONES
Vg= 1+1= 2 Predicados
CAMINOS BÁSICOS:
{1, 2, 3, 4, 5, 6}
{1, 2, 3, 4, 7, 8, 9, 10}