

Practica 2

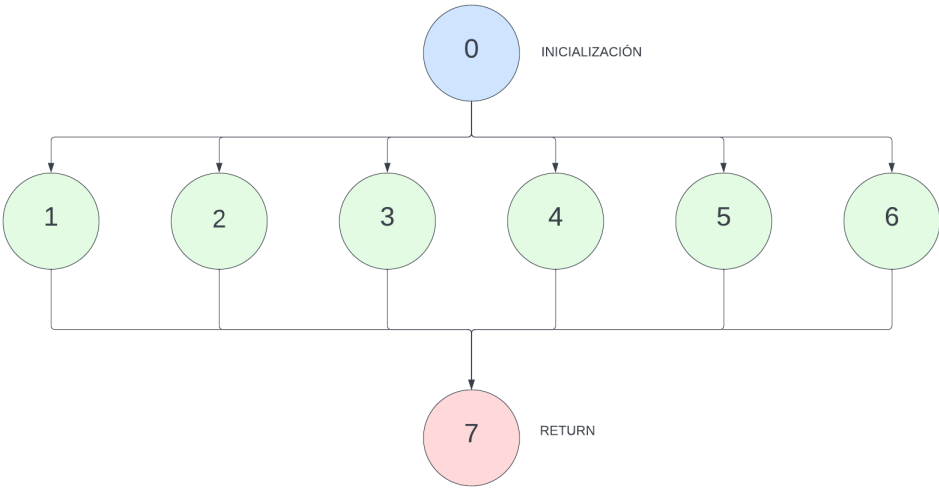
Agenda Anual

a) Cobertura Correlated Active Clause Coverage CACC para los métodos D1, D2, D3, D5, D7, S1, S4.

b) Cobertura Prime Path Coverage (PPC) para los métodos D2 y S5.

D2:

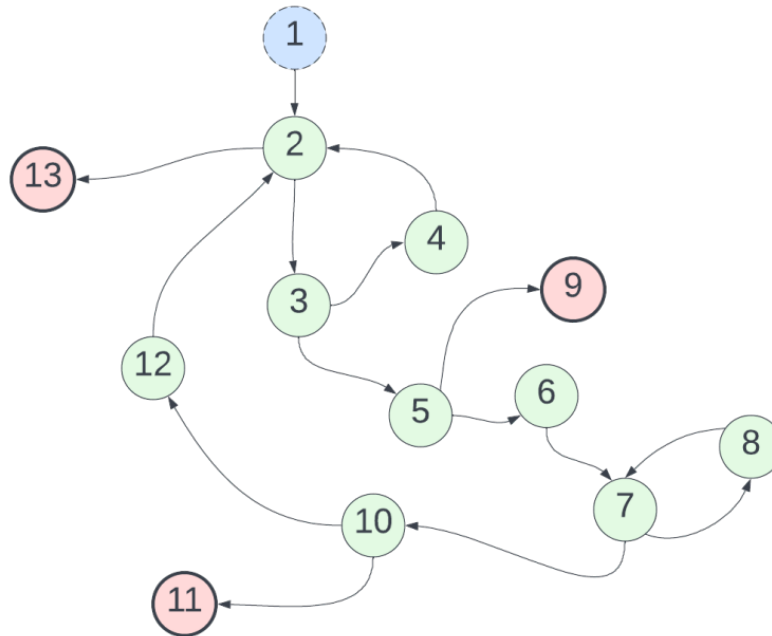
| long0 | long1 | long2 |
|-------|-------|--------|
| 1 | 0,1 | 0,1,7! |
| 2 | 0,2 | 0,2,7! |
| 3 | 0,3 | 0,3,7! |
| 4 | 0,4 | 0,4,7! |
| 5 | 0,5 | 0,5,7! |
| 6 | 0,6 | 0,6,7! |
| 7! | 1,7! | |
| | 2,7! | |
| | 3,7! | |
| | 4,7! | |
| | 5,7! | |
| | 6,7! | |



NOTA: Los caminos de tests son los rojos.

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S5:



| long0 | long1 | long2 | long3 | long4 | long5 | long6 | long7 |
|-------|--------|----------|-------------|---------------|-----------------|-------------------|---------------------|
| 1 | 1,2 | 1,2,3 | 1,2,3,4 | 1,2,3,5,6 | 1,2,3,5,6,7 | 1,2,3,5,6,7,8 | 1,2,3,5,6,7,10,11! |
| 2 | 2,3 | 1,2,13! | 1,2,3,5 | 1,2,3,5,9! | 2,3,5,6,7,8 | 1,2,3,5,6,7,10 | 1,2,3,5,6,7,10,12 |
| 3 | 2,13! | 2,3,5 | 2,3,5,6 | 2,3,5,6,7 | 2,3,5,6,7,10 | 2,3,5,6,7,10,11! | 2,3,5,6,7,10,12,2* |
| 4 | 3,4 | 2,3,4 | 2,3,5,9! | 3,5,6,7,8 | 3,5,6,7,10,11! | 2,3,5,6,7,10,12 | 3,5,6,7,10,12,2,13! |
| 5 | 3,5 | 3,4,2 | 2,3,4,2* | 4,2,3,5,9! | 3,4,6,7,10,12 | 3,5,6,7,10,12,2 | 3,5,6,7,10,12,2,3* |
| 6 | 4,2 | 4,2,3 | 3,5,6,7 | 4,2,3,5,6 | 4,2,3,5,6,7 | 4,2,3,5,6,7,8 | 4,2,3,5,6,7,10,11! |
| 7 | 5,6 | 2,5,6 | 4,2,3,4* | 5,6,7,10,11! | 5,6,7,10,12,2! | 4,2,3,5,6,7,10 | 4,2,3,5,6,7,10,12 |
| 8 | 5,9! | 5,6,7 | 4,2,3,5 | 5,6,7,10,12 | 7,10,12,2,3,5 | 5,6,7,10,12,2,13! | 5,6,7,10,12,2,3,4 |
| 9! | 6,7 | 6,7,8 | 5,6,7,8 | 6,7,10,12,2 | 7,10,12,2,3,4 | 5,6,7,10,12,2,3 | 5,6,7,10,12,2,3,5 |
| 10 | 7,8 | 6,7,10 | 5,6,7,10 | 7,10,12,2,13! | 8,7,10,12,2,13! | 6,7,10,12,2,3,4 | 6,7,10,12,2,3,5,6* |
| 11! | 8,7 | 7,8,7* | 6,7,10,12 | 7,10,12,2,3 | 8,7,10,12,2,3 | 6,7,10,12,2,3,5 | 6,7,10,12,2,3,5,9! |
| 12 | 7,10 | 8,7,8* | 6,7,10,11! | 8,7,10,12,13! | 10,12,2,3,5,9! | 7,10,12,2,3,5,9! | 7,10,12,2,3,5,6,7* |
| 13! | 10,11! | 7,10,11! | 7,10,12,2 | 8,7,10,12,2 | 10,12,2,3,5,6 | 7,10,12,2,3,5,6 | 8,7,10,12,2,3,5 |
| | 10,12 | 7,10,12 | 8,7,10,11! | 10,12,2,3,5 | 12,2,3,5,6,7 | 8,7,10,12,2,3,4 | 10,12,2,3,5,6,7,8 |
| | 12,2 | 12,2,3 | 8,7,10,12 | 10,12,2,3,4 | | 8,7,10,12,2,3,5 | 10,12,2,3,5,6,7,10 |
| | | 12,2,13! | 10,12,2,13! | 12,2,3,5,6 | | 10,12,2,3,5,6,7 | 12,2,3,5,6,7,10,11! |
| | | | 10,12,2,3 | 12,2,3,5,9! | | 12,2,3,5,6,7,8 | 12,2,3,5,6,7,10,12* |
| | | | 12,2,3,4 | | | 12,2,3,5,6,7,10 | |
| | | | 12,2,3,5 | | | | |

CAMINOS DE TEST

1, 2,3,5,6,7,10,12,2,13

1, 2, 3, 4, 2, 3, 4, 2, 4,2,3, 5, 6,7,10,12,2,3,4,2,3,5,6,7,10,12,2,3,5,9

1, 2, 3, 4,2,3,5,6,7,8,7, 8, 7,10,12, 2,3,5,6,7,,8,7,10,11!

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c) Cobertura Base Choice Coverage (BCC) para los métodos D4, D5, D6 (en este caso solo se necesita una característica), S2, S3. D4: getCita(int hora)

- D4: public Cita getCita(int hora)

| Característica | Bloque 1 | Bloque 2 | Bloque 3 | Bloque 4 | Bloque 5 |
|---------------------|------------------|------------------|----------------------|------------------|------------------|
| Hora = A | Hora < 9 = A1 | Hora = 9 = A2 | 9 < Hora < 17= A3 | Hora = 17= A4 | Hora > 17= A5 |
| Hora Ocupada = B | T = B1 | F = B2 | | | |

BCC: A3 B1

Requisitos de Test:

Fijo: A3

A3 B1

A3 B2

Fijo: B1

A1 B1

A2 B1

A4 B1

A5 B1

-
- D5: muestraCita(int hora)

| Característica | Bloque 1 | Bloque 2 | Bloque 3 | Bloque 4 | Bloque 5 |
|---------------------|------------------|------------------|----------------------|------------------|------------------|
| Hora = A | Hora < 9 = A1 | Hora = 9 = A2 | 9 < Hora < 17= A3 | Hora = 17= A4 | Hora > 17= A5 |
| Hora Ocupada = B | Cita = B1 | Null = B2 | | | |

BCC: A3 B1

Requisitos de Test:

Fijo: A3

ALUMNOS:
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A3 B1

A3 B2

Fijo: B1

A1 B1

A2 B1

A4 B1

A5 B1

-
- D6: validaHora(int hora)

UNA SOLA CARACTERÍSTICA

| Característica | Bloque 1 | Bloque 2 | Bloque 3 | Bloque 4 | Bloque 5 |
|----------------|------------------|------------------|----------------------|------------------|------------------|
| Hora = A | Hora < 9 = A1 | Hora = 9 = A2 | 9 < Hora < 17= A3 | Hora = 17= A4 | Hora > 17= A5 |

BCC: A3

ALUMNOS:
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- S2:mostrarCita(int hora, int diaSemana).

| Característica | Bloque 1 | Bloque 2 | Bloque 3 | Bloque 4 | Bloque 5 |
|------------------|---------------|---------------|-------------------|---------------|---------------|
| Dia = A | Dia < 1 = A1 | Dia= 1 = A2 | 1 < Dia < 5= A3 | Dia = 5 = A4 | Dia > 5 = A5 |
| Hora = B | Hora < 9 = B1 | Hora = 9 = B2 | 9 < Hora < 17= B3 | Hora = 17= B4 | Hora > 17= B5 |
| Hora Ocupada = C | Cita = C1 | Null = C2 | | | |

BCC: A3 B3 C1

Requisitos de test:

Fijo: A3 B3

A3 B3 C1

A3 B3 C2

Fijo: B3 C1

A1 B3 C1

A2 B3 C1

A4 B3 C1

A5 B3 C1

Fijo A3 C1:

A3 B1 C1

A3 B2 C1

A3 B4 C1

A3 B5 C1

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- S3: getDia(int diaSemana)

| Característica | Bloque 1 | Bloque 2 | Bloque 3 | Bloque 4 | Bloque 5 |
|------------------|--------------|--------------|------------------|--------------|--------------|
| Dia = A | Dia < 1 = A1 | Dia = 1 = A2 | 1 < Dia < 5 = A3 | Dia = 5 = A4 | Dia > 5 = A5 |
| Dia Asociado = B | Dia = B1 | Null = B2 | | | |

BCC: A3 B1

Fijo A3:

A3 B1

A3 B2

Fijo B1:

A1 B1

A2 B1