|  |  |  |
| --- | --- | --- |
|  | **Carátula para entrega de prácticas** | |
| Facultad de Ingeniería | | Laboratorio de docencia |

Laboratorios de computación

salas A y B

|  |  |
| --- | --- |
| *Profesor:* | Juan Alfredo Cruz Carlon |
| *Asignatura:* | Fundamentos de Programación |
| *Grupo:* | 1107 |
| *No de Práctica(s):* | 3 |
| *Integrante(s):* | Barrera Reyes Airam Fernanda |
|  |  |
|  |  |
| *Semestre:* | 2018-1 |
| *Fecha de entrega:* | 8 de Septiembre de 2017 |
| *Obervaciones:* |  |
|  |  |

CALIFICACIÓN: \_\_\_\_\_\_\_\_\_\_

**Algoritmo para incremento (n+1)**

1.Primero se escribe un asterisco (\*) en la cuadrícula.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* |  |  |  |  |  |  |  |  |  |

2.Enseguida del asterisco se escribe la cifra a incrementar, un número por celda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 |  |

3.Para delimitar el número se escribe un asterisco al final.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |

4.Y se escriben asteriscos sobre cada número.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |

5. El visor llega al último asterisco y copia este.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  |  |  |  |

6.Baja una celda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  |  |  |  |

7.Y pega el asterisco.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  |  |  | \* |

8.Subirá.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  |  |  | \* |

9.Se moverá una celda a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  |  |  | \* |

10.Bajará una celda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  |  |  | \* |

11.He incrementará en uno el número que se encuentra en la celda de arriba.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  |  | 5 | \* |

12.El visor sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  |  | 5 | \* |

13.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  |  | 5 | \* |

14.Copia el dígito y baja una celda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  |  | 5 | \* |

15.Y pega el número.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  | 6 | 5 | \* |

16.Vuelve a subir.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  | 6 | 5 | \* |

17.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  | 6 | 5 | \* |

18.Copia el número y baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  |  | 6 | 5 | \* |

19.Y pega el número.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  | 4 | 6 | 5 | \* |

20.Vuelve a subir.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  | 4 | 6 | 5 | \* |

21.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  | 4 | 6 | 5 | \* |

22.Copia el número y baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  |  | 4 | 6 | 5 | \* |

23.Pega.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  | 7 | 4 | 6 | 5 | \* |

24.Sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  | 7 | 4 | 6 | 5 | \* |

25.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  | 7 | 4 | 6 | 5 | \* |

26.Copia y baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  |  | 7 | 4 | 6 | 5 | \* |

27.Pega.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  | 0 | 7 | 4 | 6 | 5 | \* |

28.Sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  | 0 | 7 | 4 | 6 | 5 | \* |

29.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  | 0 | 7 | 4 | 6 | 5 | \* |

30.Copia y baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  |  | 0 | 7 | 4 | 6 | 5 | \* |

31.Pega.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  | 9 | 0 | 7 | 4 | 6 | 5 | \* |

32.Sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  | 9 | 0 | 7 | 4 | 6 | 5 | \* |

33.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  | 9 | 0 | 7 | 4 | 6 | 5 | \* |

34.Copia y baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  |  | 9 | 0 | 7 | 4 | 6 | 5 | \* |

35.Pega.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  | 5 | 9 | 0 | 7 | 4 | 6 | 5 | \* |

36.Sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  | 5 | 9 | 0 | 7 | 4 | 6 | 5 | \* |

37.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  | 5 | 9 | 0 | 7 | 4 | 6 | 5 | \* |

38.Copia y baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  |  | 5 | 9 | 0 | 7 | 4 | 6 | 5 | \* |

39.Pega.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 5 | \* |

40.Sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 5 | \* |

41.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 5 | \* |

42.Al llegar al asterisco significa que termino, copia este y baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
|  | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 5 | \* |

43.Pega el asterisco.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 5 | \* |

44.El resultado será el que se encuentre en la misma fila hasta llegar al último asterisco.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 4 | \* |
| \* | 5 | 5 | 9 | 0 | 7 | 4 | 6 | 5 | \* |

**EN CASO DE TENER UN 9 EN EL INCREMENTO**

1bis. Se coloca un asterisco (\*) en la cuadrícula.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* |  |  |  |  |  |  |  |  |  |

2bis.Enseguida del asterisco se escribe la cifra a incrementar, un número por celda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |  |

3bis.Para delimitar el número se escribe un asterisco al final.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |

4bis.Y se escriben asteriscos sobre cada número.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |

5bis. El visor llega al último asterisco y copia este.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  |  |  |  |

6bis.Baja una celda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  |  |  |  |

7bis.Y pega el asterisco.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  |  |  | \* |

8bis.Subirá.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  |  |  | \* |

9bis.Se moverá una celda a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  |  |  | \* |

10bis.Bajará una celda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  |  |  | \* |

11bis.He incrementará en uno el número que se encuentra en la celda de arriba. Tenemos que el número es 9 así que la orden es escribir 0; he incrementar el siguiente dígito.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  |  | 0 | \* |

12bis.El visor sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  |  | 0 | \* |

13bis.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  |  | 0 | \* |

14bis.Baja una celda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  |  | 0 | \* |

15bis.He incrementa la cifra.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  | 0 | 0 | \* |

16bis.Vuelve a encontrarse con un 0. Sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  | 0 | 0 | \* |

17bis.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  | 0 | 0 | \* |

18bis.Baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  |  | 0 | 0 | \* |

19bis.Incrementa. Se encuentra con un 0.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  | 0 | 0 | 0 | \* |

20bis.Vuelve a subir.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  | 0 | 0 | 0 | \* |

21bis.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  | 0 | 0 | 0 | \* |

22bis.Baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  |  | 0 | 0 | 0 | \* |

23bis.Incrementa. Encuentra un 0.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  | 0 | 0 | 0 | 0 | \* |

24bis.Sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  | 0 | 0 | 0 | 0 | \* |

25bis.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  | 0 | 0 | 0 | 0 | \* |

26bis.Baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  |  | 0 | 0 | 0 | 0 | \* |

27bis.Incrementa y vuelve a encontrarse con 0.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  | 0 | 0 | 0 | 0 | 0 | \* |

28bis.Sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  | 0 | 0 | 0 | 0 | 0 | \* |

29bis.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  | 0 | 0 | 0 | 0 | 0 | \* |

30bis.Baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  |  | 0 | 0 | 0 | 0 | 0 | \* |

31bis.Incrementa. Se encuentra con otro 0.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | \* |

32bis.Sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | \* |

33bis.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | \* |

34bis.Baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  |  | 0 | 0 | 0 | 0 | 0 | 0 | \* |

35bis.Incrementa y encuentra un 0.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |

36bis.Sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |

37bis.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |

38bis.Baja.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |

39bis. Incrementa y aparece otro 0.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |

40bis.Sube.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |

41bis.Se mueve a la izquierda, pero se encuentra con el asterisco.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |

42bis.Al llegar al asterisco, sobrescribe un 0.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| \* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |

43bis.Baja

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 0\* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |

44bis.He incrementa el 0.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 0\* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |

45bis.Se mueve a la izquierda.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
|  | 0\* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
|  | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |

46bis.Se escribe un asterisco.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
|  | 0\* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
| \* | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |

47bis.El resultado será el que se encuentre en la misma fila hasta llegar al último asterisco.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
|  | 0\* | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \* |
| \* | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \* |