Ejercicios para practicar bucles anidados

RECORDATORIOS SOBRE COMO RESOLVER EJERCICIOS DE BUCLES ANIDADOS

- Antes de comenzar a dibujar nuestro algoritmo debemos separar en los diferentes sumatorios y productorios que hay en la fórmula. Además, debemos encontrar los parámetros de entrada.
- Los **sumatorios** se inician en 0
- Los **productorios** se inician en 1
- El número de bucles for equivaldrá al número total de sumatorios y productorios.

30 FÓRMULAS PARA RESOLVER

1.

$$S = \sum_{i=1}^{n} \prod_{j=1}^{m} (i + j^2)$$

2.

$$T = \prod_{i=1}^{n} \left(\sum_{j=1}^{i} (j + i^2) \right)$$

3.

$$P = \prod_{i=1}^{n} \prod_{j=1}^{m} (i - j)$$

4.

$$S = \sum_{i=1}^{n} \sum_{j=1}^{i} \prod_{k=1}^{j} (i + j - k)$$

5.

$$T = \prod_{i=1}^{n} \sum_{j=1}^{i} \prod_{k=1}^{j} (k - i + j)$$

6.

$$S = \sum_{i=1}^{n} \prod_{j=1}^{m} \left(\sum_{k=1}^{j} (i + k - j) \right)$$

7.

$$P = \prod_{i=1}^{n} \prod_{j=i}^{n} (j - i)$$

8.

$$S = \sum_{i=1}^{n} \prod_{j=1}^{m} (j + i^3)$$

9.

$$T = \prod_{j=1}^{m} \sum_{i=1}^{j} \prod_{k=1}^{i} (k^2 - i)$$

10.

$$S = \sum_{i=1}^{n} \prod_{j=1}^{m} \left(\sum_{k=1}^{j} (i + k \cdot j) \right)$$

11.

$$S = \sum_{i=1}^{n} \prod_{j=1}^{m} \prod_{k=1}^{j} (i + j + k)$$

12.

$$T = \prod_{i=1}^{n} \sum_{j=1}^{m} \prod_{k=j}^{n} (i - j + k)$$

13.

$$P = \prod_{i=1}^{n} \prod_{j=1}^{i} \left(i^2 + j^2 \right)$$

14.

$$S = \sum_{i=1}^{n} \prod_{j=1}^{m} \prod_{k=1}^{j} (j - k + i)$$

15.

$$T = \prod_{i=1}^{n} \prod_{j=1}^{m} \left(\sum_{k=1}^{j} (k + i^2) \right)$$

16.

$$S = \sum_{i=1}^{n} \sum_{j=i}^{n} \prod_{k=j}^{n} (k - i)$$

17.

$$T = \prod_{i=1}^{n} \prod_{j=i}^{m} (i + j + 2)$$

18.

$$S = \sum_{i=1}^{n} \prod_{j=i}^{m} \sum_{k=1}^{j} (k + i - j)$$

19.

$$P = \prod_{i=1}^{n} \prod_{j=i}^{m} \prod_{k=1}^{j} (i + j - k)$$

20.

$$T = \prod_{j=1}^{m} \prod_{i=1}^{j} (j - i + 1)$$

21.

$$S = \sum_{i=1}^{n} (-1)^i \prod_{j=1}^{m} (j + i^2)$$

22.

$$T = \prod_{i=1}^{n} (-1)^i \sum_{j=1}^{m} \prod_{k=1}^{j} (k + i - j)$$

23.

$$S = \sum_{i=1}^{n} (-1)^i \prod_{j=1}^{i} (i + j)$$

24.

$$P = \prod_{i=1}^{n} (-1)^i \prod_{j=i}^{m} \left(i^2 - j^2\right)$$

25.

$$S = \sum_{i=1}^{n} \prod_{j=1}^{m} \left((-1)^j (i + j)\right)$$

26.

$$S = \sum_{i=1}^{n} \prod_{j=i}^{m} \left(\sum_{k=i}^{j} (k - i) \right)$$

27.

$$P = \prod_{i=1}^{n} \sum_{j=i}^{m} \prod_{k=j}^{n} (k + i - j)$$

28.

$$T = \prod_{i=1}^{n} \prod_{j=i}^{n} \sum_{k=j}^{m} (k^2 - i^2)$$

29.

$$S = \sum_{i=1}^{n} \prod_{j=i}^{m} \prod_{k=j}^{n} (i + j - k)$$

30.

$$P = \prod_{i=1}^{n} \prod_{j=i}^{m} \prod_{k=j}^{n} (i \cdot j - k)$$