PRACTICO # 3 SERIES Y SUMATORIAS

Realizar algoritmo, prueba de escritorio y su codificación

Series

- 1. 4, 5, 9, 14, 23, 37,.....
- 2. 60, 1, 58, 3, 56, 5, 54, 7, 52, 9, 50, 11
- 3. 1, 1, 2, 3, 5, 8, 13...
- 4. 2, 1, 4, 3, 6, 5, 8, 7, 10, 11...
- 5. 0, 2, 6, 12, 20...
- 6. 1, 4, 9, 16, 25...
- 7. 1, 2, 3, 5, 7, 11, 13, 17...
- 8. 1, 0, 1, 0, 1, 0, 1, 0, 1...
- 9. 1, 2, 4, 5, 10, 11, 22...
- 10. 1, 1, 2, 1, 2, 3, 1, 2, 3, 4, 1, 2, 3, 4, 5...
- 11. 1, 1, 2, 1, 2, 3, 1, 2, 3, 4, 1, 2, 3, 4, 5, 1, 2, 3, 4, 5, 6...
- 12. 1, 4, 7, 10, 13,16, 19, 22, 25,...
- 13. 3, 8, 13, 18, 23, 28, 33, 38,...
- 14. 3, 9, 27, 81, 243, 729, 2187, ...
- 15. 1, 8, 27, 64, 125, 216, 343, 512, 729, ...
- 16. 4, 2, 1, 0.5, 0.25, ...
- 17 .- si n = 8 generar 8, 1, 7, 2, 6, 3,5, 4 si n = 7 generar 7, 1, 6, 2, 5, 3, 4
- 18. 1, 20, 3, 18, 5, 16, 7, 14, 9, 12, 11, 10, 13, 8, 15, 6, 17, 4, 19, 2, 21, 0.
- 19. 1, 2, 4, 8, 16, 32, 64, 128,.....n2
- 20. 1, 2, 3, 4, 5, 5, 4, 3, 2, 1, 1, 2, 3, 4, 4, 3, 2, 1, 1, 2, 3, 3, 2, 1, 1, 2, 2, 1, 1, 1
- 21. -1, 1,-2, 3, -5, 8, -13, 21, -34, 55,.....n
- 22. 1, 3, 6, 8, 16, 18, 36,.....n



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SEMESTRE 1-2019

MATERIA: INTRODUCCION A LA INFORMATICA (INF110)

23.	1, 3, 2,6,4,9,12, 12,	48,n

28. 8, 9, 11, 14, 18,...

29. 4, 4 , 8, 24 96,...

30. 1, 7, 14, 21, 28...

31 1, 4, 8, 16, 32...

32 8, 13, 23, 38, 58,....

34. 6, 8, 14, 22, 36...



SOMETHING

La secuencia sería; multiplicar el primero por 3 el segundo dividir por 2 el tercero multiplicar por 3 el cuarto dividir por dos, etc. Por tanto seria;

35. $8 \times 3 = 24, 24$: $2 = 12, 12 \times 3 = 36, 36$: $2 = 18, 18 \times 2 = 54, 54$: 2 = 27

36. 100, 97, 94, 91, 88, 85, 50, 100, 200, 400, 800, 1600

37. 1, 1, 2, 4, 2, 6, 9, 6, 12, 16, 24, 24, 25, 120, 48,

Sumatorias

1.
$$F = 3 + 6 + 12 + 24 + 48 + ... + n$$

2.
$$F = 1 + 4 + 5 + 9 + 14 + 23 + ...$$

3.
$$F = 1 + 4 + 9 + 16 + 25 + ...$$

4.
$$F = 1 \times 2 + 3 \times 4 + 5 \times 6 \pm \dots$$

$$\tilde{5}$$
. $F = 1 + 2 - 3 + 4 - 5 + 6 - 7 + ...$

6.
$$F = 1x1 + 2x3 + 3x4 + 4x7...$$

7.
$$F = \frac{1}{2} + \frac{3}{4} + \frac{5}{6} + \frac{7}{8} + \dots$$

8.
$$F = 1^2 + 3^2 + 5^2 + 7^2 + ...$$

9.
$$F = x/1! + x^3/2! + x^5/3! \dots$$

11.
$$F = 1*3+3*5+5*7+7*9+9*11+...$$

12.
$$F = 1^1 + 2^2 + 3^3 + 4^4 + \dots + n^n$$



13.

b.
$$S = \sum_{i.}^{i.} \frac{m}{1}$$

14.
$$F = 3 \times 1 + 5 \times 2 + 7 \times 6 + 9 \times 24 + \dots$$

15.
$$S = 6 + 12 + 24 + 48 + 96 + ... + n$$

16.
$$K = 1x5 + 5x4 + 4x9 + 9x16 + 16x25 + \dots$$



SOMETHING