

IBPS PO 2019

50 Imp. Number Series Questions



Direction (1 – 5): Study the information carefully and answer the questions given below. Six people A, B, C, D, E and F are born in different years with the current base is taken as 2018. None of them is older than 90 years old. They like different fruits Apple, Orange, Grapes, Cherry, Mango, Banana.

Note- The last two digits or reverse of the last two digits of the year in which a person is born can be the age of some other person. (Like M is born in 1943 and age of N is denoted by the last two digits of the birth year of M. Then N's age will be either 34 or 43).

A was born in the year 1983. The difference of age between A and B is 21 years. C's age is the sum of the digits of the year in which B was born. The one who likes mango is five years elder to C. E age is either the last two digits or reverse of the last two digits of the year in which the person who likes mango was born. Only one person is older to E and C likes apple. The one likes cherry is just younger to E. The difference between F's and the one who likes cherry is 24 years. The one who likes banana was born in an even year. The one who likes orange is younger to the one who likes grapes both in an odd number of years. D is younger than F.

1. In which of the following year D was born?

A. 1995	B. 1983
C. 1959	D. 1938

E. None of these.
2. Which of the following statement is correct?

A. E is three years older than the one who likes cherry.
B. F is the eldest.
C. E is born in 1959
D. D is born before C
E. All are correct.
3. Which of the following combination is true?

A. 80 – Banana - C
B. 18 – Apple - E
C. 23 – Cherry - B

- | |
|--------------------|
| D. 35 – Orange - A |
| E. None of these. |
4. Who among the following is the youngest?

A. The one who likes Banana.
B. The one who likes Apple.
C. The one who likes Cherry.
D. The one who likes Orange.
E. None of these
 5. Who among the following likes Apple?

A. E	B. A
C. B	D. C
E. None of these.	

Direction: What will come in place of the question mark (?) in the following number series?

1. 25, 26, 40, 81, ?

A. 204	B. 203.5
C. 192	D. 162.5
E. 205.5	

Direction: What will come in place of the question mark (?) in the following number series?

2. ? , 98, 291, 1160, 5795

A. 50	B. 70
C. 98	D. 49
E. 68	

Direction: What should come at the place of question mark (?) in the following number series?

3. 11826, 3942, 1314, 438, ?

A. 142	B. 284
C. 346	D. 402
E. 146	

Direction: What will come in place of the question mark (?) in the following number series?

4. 12, 7, 8, 13, 27, ?

A. 37	B. 65
C. 68.5	D. 55.5
E. 72	

Direction: What will come in place of the question mark (?) in the following number series?

5. 9, 13, 4, 20, ?, 31

A. 5	B. -5
C. 25	D. -21
E. 26	

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Direction: What will come in place of the question mark (?) in the following number series?

6. 20, 10, 12, 24, ?, 325.5
A. 72 B. 48
C. 96 D. 75
E. None of these
7. In the following number series, one number is missing. What should come at the place of missing number (?)
20, 29, 54, 103, 184, ?
A. 301 B. 302
C. 303 D. 304
E. 305
8. What will come in place of question mark (?) in the following number series?
13 21 36 58 87?
A. 122 B. 128
C. 133 D. 123
E. None of These

Direction: What number should come in the place of question mark (?) in the following number series?

9. 124, 186, 372, 930, ?, 9765
A. 3250 B. 1720
C. 2790 D. 2680
E. 2570

Direction: What should come in place of question mark (?) in the following number series?

10. 100, 150, 187.5, ?, 140.625, 70.3125
A. 192.25 B. 168.85
C. 156.625 D. 168.5
E. None of these

Direction: What should come at the place of question mark (?) in the following number series?

11. 5, 14, 41, 122, ?, 1094
A. 361 B. 327
C. 365 D. 348
E. 344

Directions: What value should come at the place of question mark (?) in the following number series?

12. 13, 32, 69, 130, ?
A. 221 B. 250
C. 231 D. 254
E. 265

Direction: What will come in place of the question mark (?) in the following number series?

13. 15 19 83 119 631 (?)
A. 731 B. 693
C. 712 D. 683
E. None of these

Direction: What will come in place of the question mark (?) in the following number series?

14. 3240, 540, 108, 27, ?, 4.5
A. 7 B. 10
C. 9 D. 8
E. None of these

15. Directions: What should come in place of question mark (?) in the following number series?

- 3 14 39 84 155 258 ?
A. 398 B. 347
C. 399 D. 315
E. 445

Direction: What should come in place of the question mark '?' in the following number series?

16. 1, 27, 125, ?, 729
A. 512 B. 1331
C. 343 D. 216
E. None of these

Direction: What will come in place of the question mark (?) in the following number series?

17. 300 , 296, 287, 271, ?, 210
A. 246 B. 236
C. 251 D. 218
E. 256

Direction: Study the following number series carefully and find the missing term.

18. 8, 9, 15, 32, ?, 250.5
A. 82.5 B. 47.5
C. 62.5 D. 37.5
E. 64.5

Direction: What should come in place of question mark (?) in the following number series?

19. 2, 9, 34, 95, 216, ?
A. 427 B. 462
C. 432 D. 484
E. None of these

Direction: What should come in the place of question mark '?' in the given questions.

20. 1, 4, 21, ?, 715
 A. 112 B. 115
 C. 117 D. 116
 E. None of these

Direction: What will come in place of the question mark (?) in the following number series?

21. 7, 12, 19, 28, 39, ?
 A. 56 B. 46
 C. 58 D. 52
 E. 57

Direction: What should come in place of the question mark '?' in the following number series?

22. 15, 19, 28, 44, 69, 105, (?)
 A. 172 B. 154
 C. 140 D. 174
 E. 180

Direction: What will come in place of the question mark (?) in the following number series?

23. 7, 14, 40, 103, 227, ?
 A. 345 B. 442
 C. 375 D. 455
 E. 285

Direction: What will come in place of the question mark (?) in the following number series?

24. 12, 8, 16, ..., 184, 860
 A. 32 B. 48
 C. 128 D. 420
 E. None of these

Direction: What will come in place of the question mark (?) in the following number series?

25. 9999, 6624, 4427, 3096, 2367, ?
 A. 1234 B. 2024
 C. 1184 D. 1367
 E. None of these

Direction: In this question, a number series is given. Only one number is wrong which doesn't fit in the series. Find out the wrong number.

26. 2, 7, 27, 107, 427, 1708, 6827
 A. 2 B. 7
 C. 27 D. 1708
 E. 6827

Direction: Find the wrong term in the given series:

27. 415, 506, 604, 709, 820, 940
 A. 506 B. 604
 C. 709 D. 820
 E. 940

Direction: In the following number series, only one number is incorrect. Find out the incorrect number.

28. 82, 65, 84, 61, 88, 59
 A. 65 B. 84
 C. 61 D. 88
 E. 59

Direction: In these question, a number series is given. Only one number is wrong which doesn't fit in the series. Find out the wrong number.

29. 15, 19, 81, 119, 631, 731
 A. 81 B. 19
 C. 119 D. 631
 E. 731

Direction: Find the wrong term in the given series:

30. 7.2, 8.7, 10.8, 14.1, 19.8, 30.2, 50.4
 A. 10.8 B. 14.1
 C. 19.8 D. 30.2
 E. 50.4

Direction: A number is wrong in the following number series. Select the wrong number.

31. 7.5, 9.8, 14.4, 25.6, 42, 78.8
 A. 7.5 B. 9.8
 C. 42 D. 78.8
 E. 25.6

Direction: A number is wrong in the following number series. Select the wrong number.

32. 6250, 6025, 5856, 5735, 5650, 5605
 A. 5650 B. 5856
 C. 6025 D. 5605
 E. 6250

Direction: In each of the following questions, one of the given number is wrong. Please find the wrong number and mark that as your choice

33. 4, 3, 5, 14, 56, 274

- A. 4 B. 56
C. 5 D. 14
E. 274

Direction: A number is wrong in the following number series. Select the wrong number.

34. 520, 338, 206, 116, 62

- A. 520 B. 338
C. 206 D. 62
E. 116

Direction: A number is wrong in the following number series. Select the wrong number.

35. 64, 130, 264, 536, 1076, 2162

- A. 536 B. 264
C. 130 D. 1076
E. 64

Direction: In the following number series only one number is wrong. Find out the wrong number.

36. 0, 7, 28, 63, 124, 215

- A. 215 B. 63
C. 7 D. 28
E. 0

Direction: In the following number series only one number is wrong. Find out the wrong number.

37. 6, 14, 30, 60, 126, 254

- A. 6 B. 60
C. 14 D. 126
E. None of these

Direction: In the following number series only one number is wrong. Find out the wrong number.

38. 5, 6, 12, 40, 161, 806

- A. 161 B. 6
C. 12 D. 5
E. None of these

Direction: In the following number series only one number is wrong. Find out the wrong number.

39. 137, 148, 161, 178, 192

- A. 192 B. 137
C. 178 D. 148
E. None of these

Direction: In the following number series only one number is wrong. Find out the wrong number.

40. 255, 380, 596, 938, 1451

- A. 596 B. 380
C. 938 D. 255
E. 1451

Direction: Find the wrong term in the given series:

41. 68, 82, 91, 103, 107, 115

- A. 91 B. 103
C. 115 D. 68
E. 82

Direction: Find the wrong term in the given series:

42. 7, 16, 34, 70, 143, 286

- A. 286 B. 34
C. 143 D. 70
E. 16

Direction: Find the wrong term in the given series:

43. 5, 14, 55, 274, 1641, 11500

- A. 55 B. 274
C. 1641 D. 11500
E. 5

Direction: Find the wrong term in the given series:

44. 2.5, 3.5, 15, 60, 300, 1800

- A. 3.5 B. 15
C. 60 D. 300
E. 2.5

Direction: Find the wrong term in the given series:

45. 513, 257, 129, 65, 31, 17, 9

- A. 257 B. 129
C. 65 D. 31
E. 17

Direction: In the following series, only one number is incorrect. Find out the incorrect number.

46. 21, 31.5, 63, 160, 472.5, 1653.75, 6615

- A. 63 B. 6615
C. 31.5 D. 21
E. 160

Direction: Find the wrong term in the given series:

47. 95 142 187 260 331 410
A. 95 B. 187
C. 142 D. 331
E. 260

Direction: Find the wrong term in the given series:

48. 3 5 15 41 90 173
A. 5 B. 15
C. 90 D. 41
E. 173

Direction: Find the wrong term in the given series:

49. 9, 10, 19, 57, 231, 1156, 6935

- A. 9 B. 19
C. 57 D. 231
E. 1156

50. A, B and C started a business with a capital of Rs. 80000, 120000 and 150000, respectively and they decided to share their profit according to the ratio of their capital. But A is also working in the same company and so takes 12.5% of the total profit as salary. If C withdraws his capital after 6 months and the profit after one year is Rs. 88000 then find the total share of A.
A. Rs. 22400 B. Rs. 33600
C. Rs. 33400 D. Rs. 21000
E. None of these

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ANSWERS

1. Ans. B.

$$25 \times 1 + 1 = 26$$

3

$$26 \times 2 + 1 = 40$$

$$40 \times 2 + 1 = 81$$

5

$$81 \times 2 + 1 = 203.5$$

2. Ans. A.

$$50 \times 2 - 2 = 98$$

$$98 \times 3 - 3 = 291$$

$$291 \times 4 - 4 = 1160$$

$$1160 \times 5 - 5 = 5795$$

3. Ans. E.

$$11826 / 3 = 3942$$

$$3942 / 3 = 1314$$

$$1314 / 3 = 438$$

$$438 / 3 = 146$$

4. Ans. C.

Given series - 12, 7, 8, 13, 27, ?

$$12 \times 0.5 + 1 = 7$$

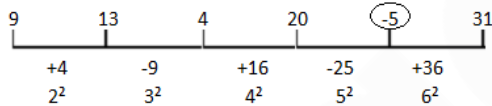
$$7 \times 1 + 1 = 8$$

$$8 \times 1.5 + 1 = 13$$

$$13 \times 2 + 1 = 27$$

$$27 \times 2.5 + 1 = 68.5$$

5. Ans. B.



Hence option B is the right answer.

6. Ans. D.

Solution-

The pattern of the series is

$$20 \times 0.5 - 0 = 10$$

$$10 \times 1.5 - 3 = 12$$

$$12 \times 2.5 - 6 = 24$$

$$24 \times 3.5 - 9 = 75$$

$$75 \times 4.5 - 12 = 325.5$$

7. Ans. E.

$$20 + 3^2 = 29$$

$$29 + 5^2 = 54$$

$$54 + 7^2 = 103$$

$$103 + 9^2 = 184$$

$$184 + 11^2 = 305$$

8. Ans. D.

$$13 \quad +8$$

$$21 \quad +8+7$$

$$36 \quad +15+7$$

$$58 \quad +22+7$$

$$87 \quad +29+7$$

$$123$$

Hence option D is correct

9. Ans. C.

$$124 \times 1.5 = 186$$

$$186 \times 2 = 372$$

$$372 \times 2.5 = 930$$

$$930 \times 3 = 2790$$

$$2790 \times 3.5 = 9765$$

10. Ans. E.

$$100 * 6/4 = 150$$

$$150 * 5/4 = 187.5$$

$$187.5 * 4/4 = 187.5$$

$$187.5 * 3/4 = 140.625$$

$$140.625 * 2/4 = 70.3125$$

11. Ans. C.

$$14 = 5 * 3 - 1$$

$$41 = 14 * 3 - 1$$

$$122 = 41 * 3 - 1$$

$$? = 122 * 3 - 1, \text{ i.e. } ? = 365$$

$$1094 = 365 * 3 - 1$$

12. Ans. A.

$$2^3 + 5 = 8 + 5 = 13$$

$$3^3 + 5 = 27 + 5 = 32$$

$$4^3 + 5 = 64 + 5 = 69$$

$$5^3 + 5 = 125 + 5 = 130$$

$$6^3 + 5 = 216 + 5 = 221$$

13. Ans. A.

The pattern of the number series is:

$$19 - 15 = 4 = 2^2$$

$$83 - 19 = 64 = 4^3$$

$$119 - 83 = 36 = 6^2$$

$$631 - 119 = 512 = 8^3$$

$$\rightarrow ? = 631 + 10^2 = 631 + 100 = 731$$

14. Ans. C.

$$540 = 3240/6$$

$$108 = 540/5$$

$$27 = 108/4$$

$$? = 27/3, \text{ i.e. } ? = 9$$

$$4.5 = 9/2$$

15. Ans. C.

3, 14, 39, 84, 155, 258, ?
 $= n^3 + n^2 + n$ put $n = 1, 2, 3, 4 \dots$
 7th term = $343 + 49 + 7 = 399$

16. Ans. C.

If we observe the question, we can draw a pattern

$$(1)^3 = 1$$

$$(3)^3 = 27$$

$$(5)^3 = 125$$

$$(7)^3 = ? = 343$$

$$(9)^3 = 729$$

Hence, C is the correct option.

17. Ans. A.

AS in this series the pattern is $\rightarrow -4, -9, -16, -25, -36$

So, in place of ? $\rightarrow 246$ must be come

18. 1. Ans. A.

$$8 \times 1 + 1 = 9$$

$$9 \times 1.5 + 1.5 = 15$$

$$15 \times 2 + 2 = 32$$

$$32 \times 2.5 + 2.5 = 82.5$$

$$82.5 \times 3 + 3 = 250.5$$

19. Ans. A.

Pattern difference is :

$$+2^3 - 1, +3^3 - 2, +4^3 - 3, +5^3 - 4,$$

$$+6^3 - 5 \dots$$

So answer will be $216 - (6^3 - 5) = 427$

20. Ans. D.

If we observe the question, we can draw a pattern

$$1 \times 2 - 1 = 1$$

$$1 \times 2 \times 3 - 2 = 4$$

$$1 \times 2 \times 3 \times 4 - 3 = 21$$

$$1 \times 2 \times 3 \times 4 \times 5 - 4 = ? = 116$$

$$1 \times 2 \times 3 \times 4 \times 5 \times 6 - 5 = 715$$

21. Ans. D.

The pattern is:

$$6 \times 1 + 1^2 = 7$$

$$8 \times 1 + 2^2 = 12$$

$$10 \times 1 + 3^2 = 19$$

$$12 \times 1 + 4^2 = 28$$

$$14 \times 1 + 5^2 = 39$$

$$16 \times 1 + 6^2 = 52$$

22. Ans. B.

15, 19, 28, 44, 69, 105, (154)

+4 +9 +16 +25 +36 +49

23. Ans. B.

Given series - 7, 14, 40, 103, 227, ?

The pattern is as follows:

$$7 + (2^3 - 1) = 14$$

$$14 + (3^3 - 1) = 40$$

$$40 + (4^3 - 1) = 103$$

$$103 + (5^3 - 1) = 227$$

$$227 + (6^3 - 1) = 442$$

24. Ans. B.

Solution-

The pattern of the series

$$12 \times 0.5 + 2 = 8$$

$$8 \times 1.5 + 4 = 16$$

$$16 \times 2.5 + 8 = 48$$

$$48 \times 3.5 + 16 = 184$$

$$184 \times 4.5 + 32 = 860$$

25. Ans. B.

The pattern of the given series is

$$\Rightarrow 9999$$

$$\Rightarrow 9999 - 15^3 = 9999 - 3375 = 6624$$

$$\Rightarrow 6624 - 13^3 = 6624 - 2197 = 4427$$

$$\Rightarrow 4427 - 11^3 = 4427 - 1331 = 3096$$

$$\Rightarrow 3096 - 9^3 = 3096 - 729 = 2367$$

$$\Rightarrow 2367 - 7^3 = 2367 - 343 = 2024$$

$\therefore ? = 2024$

26. Ans. D.

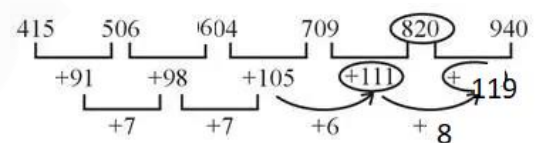
This series

$$2 \times 4 - 1 = 7$$

$$7 \times 4 - 1 = 27$$

So, 1707 will come in place of 1708

27. Ans. D.



Clearly, to follow a pattern difference

'111' should be replaced by 112

So, correct no. after 709 will be $709 +$

$$112 = 821$$

28. Ans. D.

The series follows the pattern,

$$82 - 17 = 65$$

$$65 + 19 = 84$$

$$84 - 23 = 61$$

$$61 + 29 = 90$$

$$90 - 31 = 59$$

Thus, the incorrect number is 88

So option (d) is the correct answer.

29. Ans. A.

The series is $15 + 2^2 = 19$

$$19 + 4^3 = 83$$

$$83 + 6^2 = 119$$

$$119 + 8^3 = 631$$

$631 + 10^2 = 731$

Hence, there should be 83 in place of 81.

30. Ans. D.

$7.2 + 1.5 + 0.6 = 8.7$

$8.7 + 2.1 + 1.2 = 10.8$

$10.8 + 3.3 + 2.4 = 14.1$

$14.1 + 5.7 + 4.8 = 19.8$

$19.8 + 10.5 + 9.6 = \underline{30.3}$

$30.3 + 20.1 = 50.4$

31. Ans. E.

$7.5 + 2.3 = 9.8$

$9.8 + 4.6 = 14.4$

$14.4 + 9.2 = 23.6$

$23.6 + 18.4 = 42$

$42 + 36.8 = 78.8$

32. Ans. A.

The series is

$6250 - 15^2 = 6025$

$6025 - 13^2 = 5856$

$5856 - 11^2 = 5735$

$5735 - 9^2 = 5654$

33. Ans. B.

$4 \times 1 - 1 = 3$

$3 \times 2 - 1 = 5$

$5 \times 3 - 1 = 14$

$14 \times 4 - 1 = 55$

$55 \times 5 - 1 = 274$

34. Ans. D.

The series is

$520 - (13^2 + 13) = 338$

$338 - (11^2 + 11) = 206$

$206 - (9^2 + 9) = 116$

$116 - (7^2 + 7) = 60$

35. Ans. A.

The series is

$64 \times 2 + 2 = 130$

$130 \times 2 + 4 = 264$

$264 \times 2 + 6 = 534$

$534 \times 2 + 8 = 1076$

$1076 \times 2 + 10 = 2162$

36. Ans. D.

The pattern is $= 1^3 - 1, 2^3 - 1, 3^3 - 1, 4^3 - 1, 5^3 - 1, 6^3 - 1$

So the wrong term 28 is replace by $= 3^3 - 1 = 26$

37. Ans. B.

The pattern is $= + 8 + 16 + 32 + 64 + 128$

So the wrong term 60 is replace by $= 30 + 32 = 62$

38. Ans. C.

The pattern is $5 \times 1 + 1 = 6, 6 \times 2 + 1 = 13, 13 \times 3 + 1 = 40, 40 \times 4 + 1 = 161, 161 \times 5 + 1 = 806$

So the wrong term 12 is replace by $= 6 \times 2 + 1 = 13$

39. Ans. A.

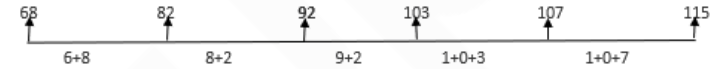
This series is based upon difference of two consecutive prime number. So there should be correct number is 197 in place of 192.

40. Ans. C.

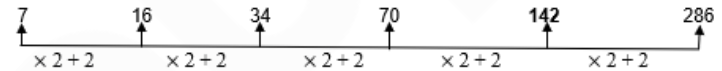
This series is based upon:

$+5^3, +6^3, +7^3, +8^3,$

41. Ans. A.

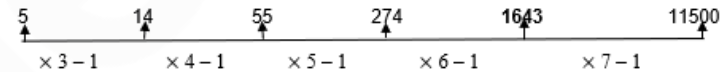


42. Ans. C.

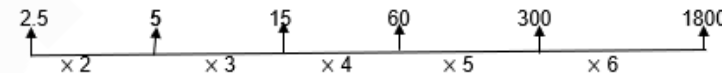


143 is the wrong number in series.

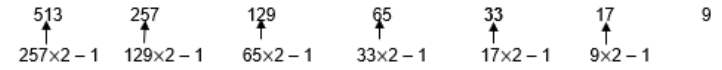
43. Ans. C.



44. Ans. A.



45. Ans. D.



46. Ans. E.

The Pattern is:-

$\rightarrow 21$

$\rightarrow 21 \times 1.5 = 31.5$

$\rightarrow 31.5 \times 2 = 63$

$\rightarrow 63 \times 2.5 = 157.5$

$\rightarrow 157.5 \times 3 = 472.5$

$\rightarrow 472.5 \times 3.5 = 1653.75$

$\rightarrow 1653.75 \times 4 = 6615$

Thus, the incorrect number is 160
So option (e) is the correct answer.

47. Ans. B.

Series Pattern	Given Series	
95	95	✓
$95 + 47 = 142$	142	✓
$142 + 55 = 197$	187	x
$197 + 63 = 260$	260	✓
$260 + 71 = 331$	331	✓
$331 + 79 = 410$	410	✓

Hence, there must be 197 in place of 187.

Hence, option B is correct.

48. Ans. C.

Series Pattern	Given Series	
3	3	✓
$3 + 1^2 + 1 = 5$	5	✓
$5 + 3^2 + 1 = 15$	15	✓
$15 + 5^2 + 1 = 41$	41	✓
$41 + 7^2 + 1 = 91$	90	X
$91 + 9^2 + 1 = 173$	173	✓

Hence, there should be 90 in place of 91.

Hence, option C is correct.

49. Ans. C.

Series Pattern	Given Series	
9	9	✓
$9 \times 1 + 1 = 10$	10	✓
$10 \times 2 - 1 = 19$	19	✓
$19 \times 3 + 1 = 58$	57	X
$58 \times 4 - 1 = 231$	231	✓
$231 \times 5 + 1 = 1156$	1156	✓
$1156 \times 6 - 1 = 6935$	6935	✓

Hence, there should be 58 in place of 57.

Hence, option C is correct.

50. Ans. C.

Since C withdraws his capital after 6 months;

Share in which profit will be distributed
 $= 8 \times 12 : 12 \times 12 : 15 \times 6 = 16 : 24 : 15$

Total profit = Rs. 88000

Share of profit received by A as salary =
 $88000 \times \frac{1}{8} = \text{Rs. } 11000$

Remaining profit to be distributed
 equally among three = $88000 - 11000 = \text{Rs. } 77000$

Share of A in the remaining profit =
 $77000 \times \frac{16}{55} = \text{Rs. } 22400$

Total share of A = $11000 + 22400 = \text{Rs. } 33400$

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