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WIPRO NLTH Slot – 1 (18-10-2019)

1. $3 \times (4^4 + 4^3 + 4^2 + 4 + 1) =$
a. 1019 b. 1029 c. 1026 d. 1023
Answer: 1023
2. (0, 1, 2, 3, 4,) are:
Answer: Whole Number
3. Sum of squares of 2 numbers is 2754, HCF of the numbers is 9, LCM is 135, nos are?
Answer: 27 and 45
4. Divide the sum of $\frac{3}{5}$ and $\frac{8}{11}$ by their difference.
Answer: None of the above
5. What is Z in $-0.196/Z^2 = 10$
Answer: 0.14
6. Divide the sum of $\frac{3}{5}$ and $\frac{8}{11}$ by their difference?
Answer: None of the above
7. A woman sold 15 bed sheets for Rs. 15,000, hence gaining the cost price of 5 bed sheets. The cost per sheet is:
Answer: 750
8. Given that the interest is only earned on principal, if an investment of rs.1000.00 amount to rs.1440.00 in two years, then what is the rate of interest earned?
Answer: 22%
9. If x is an odd number and y is an even number, then which of the given options is false?
Answer: $xy + y^x + 1$ is even
10. Parul's one-fifth the age her mother was 15 years ago and Parul's brother is three-fifth the age his mother was 10 years ago. If the sum of Parul and her brother's ages is 31. Then how old is Parul's mother?
Answer: 50
11. What sum of money will accumulate to Rs. 5300 at 8% simple interest in 9 months?
Answer: Rs. 5,000
12. a. rahul knew that it was worthless /b. to scream at the policeman/c. who was least bothered about his lost wallet
Answer: No Error
13. X is the wife of Y and Y is the Brother of Z. Z is the Son of P. How is P related to X?
Answer: Father
14. Problem Question: How many sisters does Mamta have?



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Statements:

- I) Mamta does not have any brother
- II) Mamta's mother has four daughters

Answer: Both statement are required

15. After repeated washing, the coffee stain _____ from the white shirt.

Answer: From the white shirt

16. There was no _____ that we were in a fix, was we has food in the coach.

Answer: Denial

17. From the given choices select the off one out.

- (a) PRQ (b) ACB (c) TUV (d) QSR

Answer: TUV

18. Arrange in sequence

- A - you should create
- B - in situations that have
- C - been stuck
- D - transformations
- E - the space for

Answer: AEDBC

19. 4.28 and -3.28 are two numbers on a real number line. If 1 is added to both the numbers, then which of the following is true?

- a. distance between the two new number is 2 units MORE than the distance between 4.28 and -3.28
- b. distance between the two new number is 2 units LESS than the distance between 4.28 and -3.28
- c. distance between the two new number is 2 units EQUAL than the distance between 4.28 and -3.28
- d. NONE

Answer: Option C

20. Choose the option that arranges the given set of words in the 'most' meaningful order. The words when put in order should make logical sense according to size, quality, quantity, occurrence of events, value, appearance, nature, process, etc.

- 1. Judgement 2. Arrest 3. Police 4. Crime 5. Complaint 6. Court Hearing

Answer: 4, 5, 3, 2, 6, 1

20. Select the word that is most nearly OPPOSITE in meaning to the given word.

CRUCIAL

Answer: Dispensable

21. Find the odd one out:

- a. adp b. qtx c. hkr d. ste

Answer: STE



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22. Essay Writing Question

Culture and tradition are as important as science to the progress and well-being of society.

Write a response that critically analyses how culture and tradition influence society amidst the effects of scientific and technological development.

23. Excessive amounts of mercury in drinking water, associated with certain types of industrial pollution have been shown to cause Hobsons disease. Island L has an economy based entirely on subsistence level agriculture, modern industry of any kind is unknown. The inhabitants of Island L have unusually high incidence of Hobsons disease.

Options

- A. Mercury in drinking water is actually perfectly safe
- B. Mercury in drinking water must have sources other than industrial pollution
- C. Hobsons disease must have causes other than mercury in drinking water
- D. Both options (1) and (2)
- E. Both options (3) and (2)

Answer

Option E

PASSAGE:

Rohit brushed quickly past an elderly woman waiting on the platform ahead of him to get onto the metro. He wanted to be sure to get a seat to read his Economic Times. As the train rolled out of the station, he lifted his head from the newspaper and stared at the man directly across from him.

A tsunami - of antipathy - met him. Rohit knew this man, knew him all too well.

Their eyes locked.

As the train reached full speed, the ruckus of speeding wheels against the winding rails and a wildly gyrating subway car filled Rohit's ears. To this frenetic beat Rohit effortlessly listed in his head all the reasons this man, whose eyes he stared coldly into, was an anathema to him.

He had climbed the upper echelons of his firm using an imperious manner with his subordinates, always making sure everyone knew he was the boss.

Despite his impoverished upbringing, he had become ostentatious. Flush with cash from the lucrative deals he had made, he had purchased a yacht and a home in Mumbai. He used neither. But, oh, how he liked to say he had them. Meanwhile, Rohit knew, this man's parents were on the verge of being evicted from their run-down tenement apartment in Allahabad.

What bothered Rohit most about this man was that he never even attempted to make amends for his evil ways.

Could this man change? Rohit did not know. He could try though.

The train screeched to Rohit's stop. He gave the man one last hard look. "See you around," he mumbled to himself. And he knew he would, because Rohit had been glaring at his own reflection in the glass in the metro.



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It would take years of hard work and therapy, but Rohit would one day notice this man again on the train and marvel at what a kinder person he had become.

Question 24: why did a tsunami Of antipathy come over Rohit?

Options:

1. Because he was angry at himself and unable to stand looking at himself
2. Because the man sitting across him was his former boss who treated him badly
3. Because he wanted to read his newspaper and not be disturbed, especially by someone he disliked
4. Because the guy sitting across him was financially better off than Rohit

Answer:

Option 1: Because he was angry at himself and unable to stand looking at himself

Question 25: What does it mean to have an imperious manner with underlings?

Options:

1. To ignore them
2. To be stoic around them
3. To openly humiliate them
4. To not be affected by them
5. To be domineering towards them

Answer:

Option 5: To be domineering towards them

Question 26: which statement makes most sense from what is said in the paragraph?

Options:

1. Rohit has few friends
2. Rohit knows himself well
3. Rohit has had a difficult life
4. Rohit is incapable of change

Answer:

Option 2: Rohit knows himself well

PASSAGE

Environmental toxins which can affect children are frighteningly commonplace. Besides lead, there are other heavy metals such as mercury, which is found frequently in fish, that are spewed into the air from coal-fired power plants, says Maureen Swanson, MPA, director of the Healthy Children Project at the Learning Disabilities Association of America. Mercury exposure can impair children's memory, attention, and language abilities and interfere with fine motor and visual spatial skills. A recent study of school districts in Texas showed significantly higher levels of autism in areas with elevated levels of mercury in the environment. Researchers are finding harmful effects at lower and lower levels of exposure, says Swanson.

They're now telling us that they don't know if there's a level of mercury that's safe. Unfortunately, some of these chemicals make good flame retardants and have been widely used in everything from upholstery to televisions to children's clothing. Studies have found them in high levels in household dust, as well as in breast milk. Two categories of these flame retardants have been banned in Europe and are starting to be banned by different states in the United States. The number of toxins in our environment that can affect children may seem overwhelming at times. On at least some fronts, however, there is progress in making the world a cleaner place for kids and just possibly, reducing the number of learning disabilities and neurological problems. With a number of efforts to clean



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up the environment stalled at the federal level, many state governments are starting to lead the way. And rather than tackle one chemical at a time, at least eight states are considering plans for comprehensive chemical reform bills, which would take toxic chemicals off the market.

Question 27: All these harmful effects of mercury in children EXCEPT:

Answer: Affects driving skills

Question 28: "Researchers are finding harmful effects at lower levels of exposure". How can this line be interpreted?

Answer: Even a little exposure can cause harm

29. Given that the interest is only earned on principal, if an investment of rs.1000.00 amount to rs.1440.00 in two years, then what is the rate of interest earned?

Answer: 22%

30. Mayank is going on a holiday trip. he wants to pack 3 t-shirt from 5 t-shirt he has. in how many ways can he make his choice?

Answer: 10

31. The guilt seeps deep inside you ___ a way that it depresses you

1) in 2) for 3) through 4) by

Answer: In

32. If EXAM is coded as FYBN, then TEST is coded as:

Answer: UFTU

33. Aggrarian (Opposite)

Answer: Urban

34. A man bought 400 meters of cloth for Rs. 40000 and sold it at a rate of Rs. 200 per one and a half meter. What was his percentage profit or loss?

Answer: 33% profit

35. X says, pointing to Y "He is my sister's only brother's son". How is Y related to X?

Answer: Son

36. Two pipes A and B can separately fill a cistern in 220 minutes and 330 minutes. Together, they can fill the cistern in

Answer: 2 hours 12 minutes

37. What sum of money will accumulate to Rs. 5300 at 8% simple interest in 9 months?

Answer: Rs. 5000

38. Introducing a woman, man said, "She is the only daughter of the father of my mother." How the woman is related to the man.

Answer: Daughter



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39. **Improve the sentence by selecting the correct alternative to the bracket part of the sentence.**

A registered marriage requires the signatures of four (witnesses) two each from the bride's side and the groom's side.

Answer: attestors

40. In how many ways Sangeeta, Aarti, Pooja Mona and Payal can stand in a queue?

Answer: 120 ways

41. **Decode the word(s) / pattern given in the question.**

If NORMAL is coded as LAMRON, then SYSTEM is coded as

Answer: METSYS

42. Arrange in sequence:

1. Tajmahal 2. India 3. Asia 4. Agra 5. Uttar Pradesh

Answer 3, 2, 5, 4, 1

43. Find the missing term in the series.

8, 8, 15, 23, 38,

Answer: 61

44. If at 15% profit, the selling price of dozen pencils is Rs. 13.80; then what is the cost price of a pencil?

Answer: Rs. 12

45. Novice (OPPOSITE)

Answer: Adept

46. How many 3-digit numbers can be formed using 2, 3, 4 and 5 with none of the digits being repeated?

Answer: 24

47. P is the daughter of q. r is the brother of p. s is the father of r. how is q related to s?

Answer: Wife

48. The question consists of a problem question followed by two statements I and II .Find out if the information given in the statement(s) is sufficient in finding the solution to the problem.

Among the four students of class V – Radha, Meera, Kamala and Geetanjali, who is the tallest?

Statements:

I) Meera is shorter than Radha, but taller than Geetanjali

II) Kamala is taller than Meera

Options:

- a. Statement I alone is sufficient in answering the problem question
- b. Statement II alone is sufficient in answering the problem question
- c. Both statement put together are sufficient in answering the problem question
- d. Both the statements even put together are not sufficient in answering the problem question
- e. Either of the statement is sufficient in answering the problem question

Answer: Both the answer putting together are not sufficient



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49. The question consists of a problem question followed by two statements I and II. Find out if the information given in the statement(s) is sufficient in finding the solution to the problem.

Problem question: How is Mr. Sharma related to Santosh?

Statements:

- I. Santosh's mother has two daughters
- II. Santosh's sister is the wife of Mr. Sharma's son.

Answer: Both statements put together are sufficient in answering the problem question.

50. Read the sentence to find out whether there is any grammatical error in it.

(A) A tie is a very important (B) pert of formal dressing (C) for every men.

Answer: Option (C)

51. What is the value of square $7\frac{1}{2}$, when it is expressed as a mixed fraction?

Answer: $49\frac{1}{4}$

52. One third of a two digit number exceeds its one fourth by 7. What is the sum of digits of the number?

Answer: 12

53. Problem Question: In which year was Rashmi born?

Statements:

- I) Rashmi four years younger to her brother
- II) Rashmi's brother was born in 1999

Answer: Both the statements put together are sufficient in answering the problem question.

54. Read the sentence to find out whether there is any grammatical error in it.

(A) His low marks in English/ (B) suggested that he did/ (C) not know nothing/ (D) about the language/ (E) No error

Answer: Option (C)

55. Identify the sentence that is grammatically correct.

Options

- A. Which of the seven continents, does Japan belongs to?
- B. Which of the seven continent, does Japan belongs to?
- C. Which of the seven continents, does Japan belong to?
- D. Which off the seven continents, does Japan belong to?
- E. Which off the seven continent, does Japan belongs to?

Answer: Option B

56. There was a lot of cheating _____ the test in the class.

Answer: during

57. Find the next number in the series.

5, 25, 61, 113, ...

Answer: 181



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58. What is the highest power of 2 in the following expression?

$$1800 \times 25 \times 4^8 \times 21^2 \times 45^{-2}$$

Answer: 19

59. Find the value of x if $8^{2x} \div 8^{-5} = 8^7$

Answer: X = 1

60. Simplify $\left[\left(\frac{1}{8}\right)^{-1}\right]^{-4}$

Answer: 4096

61. What is the difference between the LCM and HCF of the numbers 20, 30, and 40?

Answer: 110

62. POMPOUS (OPPOSITE)

Answer: Modest

63. P is the son-in-law of S. T and Q are the children of P. M is the mother of T. How is M related to S?

Answer: Daughter

64. Read the sentence and find out whether there is any grammatical error in it.

(A) A salesman of that (B) company tried to (C) cheated a naïve lady.

Answer: (C)

65. ABSORPTION (Synonym)

Answer: Suction

66. If WORD is coded as 9753, then DOOR is coded as:

Answer: 3775

67. Of all the fitness and wellness activities customary in India, Artistic yoga is the new kid in town. It has successfully earned a pat on the back from whosoever has lent an ear to the latest advancements. Artistic yoga combines the suaveness of yoga and the frenzy of modern cardio-vascular exercises. The technique involves performance of various aasanas and pranayams followed by walking on treadmill, stair climbing, cycling and so on. The activities are performed in a cyclic order and the aasana or pranayam that is done in the beginning is repeated in the end. This helps an individual at the physical level as well as the mental and spiritual level, thus helping bring about a complete transformation of body, mind and soul.

- A. Artistic yoga helps in the overall development of those who practice it
- B. Artistic yoga has been adopted by modern people since it is in fashion these days
- C. All the activities performed at the beginning of artistic yoga are also repeated in the end
- D. Since it combines yoga and exercises, artistic yoga will replace other fitness and wellness programs

Answer: Option C



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PASSAGE:

Environmental toxins which can affect children are frighteningly commonplace. Besides lead, there are other heavy metals such as mercury, which is found frequently in fish, that are spewed into the air from coal-fired power plants, says Maureen Swanson, MPA, director of the Healthy Children Project at the Learning Disabilities Association of America. Mercury exposure can impair children's memory, attention, and language abilities and interfere with fine motor and visual spatial skills. A recent study of school districts in Texas showed significantly higher levels of autism in areas with elevated levels of mercury in the environment. Researchers are finding harmful effects at lower and lower levels of exposure, says Swanson. They're now telling us that they don't know if there's a level of mercury that's safe. Unfortunately, some of these chemicals make good flame retardants and have been widely used in everything from upholstery to televisions to children's clothing. Studies have found them in high levels in household dust, as well as in breast milk. Two categories of these flame retardants have been banned in Europe and are starting to be banned by different states in the United States. The number of toxins in our environment that can affect children may seem overwhelming at times. On at least some fronts, however, there is progress in making the world a cleaner place for kids and just possibly, reducing the number of learning disabilities and neurological problems. With a number of efforts to clean up the environment stalled at the federal level, many state governments are starting to lead the way. And rather than tackle one chemical at a time, at least eight states are considering plans for comprehensive chemical reform bills, which would take toxic chemicals off the market.

Question 68.

On at least some fronts, however, there is progress in making the world a cleaner place for kids-and just possibly, reducing the number of learning disabilities and neurological problems. What 'front' is being referred to?

Answer: Banning of the flame retardant in Europe and various states of America.

Question 69.

"Besides lead, there are other heavy metals such as mercury, which are found frequently in fish, that are spewed into the air from coal-fired power plants". How can this line be worded differently?

Answer: Besides lead, fish contains mercury which is a heavy metal ejected in the air from power plants using coal.

PASSAGE:

"Build a worse mousetrap and the world will beat a path to your door." This isn't much of a slogan, but over the past few years it has, in certain circles, become conventional wisdom, thanks mainly to "The Innovator's Dilemma", a 1997 book by a Harvard professor named Clayton Christensen. Why, Christensen asked, do companies that dominate one kind of technology tend to get swamped by those that offer something new.....

Question 70. What best describes the statement: "Build a worse mousetrap and the world will beat a path to your door."?

Answer: Satirical.

Question 71. According to the author, what is the problem companies had with the internet?

Answer: The companies could not make money with it

Question 73. Which of the given statements is true about Christensen and Mead?

Answer: They are in partial agreement



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74. The simple interest earned on a certain amount is double the money when invested for 15 years. What interest rate is offered?

Answer: 13.33%

75. Mayank travelled a distance of 80 m towards North. Then he turns right and travels 65 m, then again turns northwards and travels 45 m. He further travels by turning 45 degree clockwise. Towards which direction is he running now?

Answer: North-East

76. Rahul purchase 7 DVDs each of which costs Rs. 17. He gave a five hundred rupee note to the shopkeeper. The amount returned to him is divisible by

Answer: 3

77. A tourist has strayed from his path while on his way to his hotel. He moves 28 km towards South, then moves 20 km towards West, then 4 km towards North and then 2 km towards East to reach his hotel. What is the distance of the shortest possible route?

Answer: 30 km

78. Mehak was in a whimsical mood and to reach her home from her office she took the following steps -4 steps towards north ,3 steps towards east,8 steps towards south,6 steps towards west,7 steps towards north,5 steps towards east, 6 steps towards south,4 steps towards west and finally reached home taking 3 steps towards north.the location of Mehak's home with respect to her office is

Answer: 2 steps to the west

79. Ronald and Elan are working on an assignment. Ronald takes 6 hours to type 32 pages on a computer, while Elan takes 5 hours to type 40 pages. How much time will they take working together on two different computers to type an assignment of 110 pages?

Answer: 8 hours 15 minutes

80. A certain sum of money amounts to Rs. 2500 in a span of 5 years and further to Rs. 3000 in a span of 7 years at simple interest. The sum is

Answer: Rs. 1250

81. Find the next number in the given series.

2, 3, 6, 18, 108,....

Answer: 1944

82. The bellboy is responsible ____ the morning wake up calls.

Answer: for

83. The simple interest earned on a certain amount is double the money when invested for 15 years. What interest rate is offered?

Answer: 13.33%



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84. From the given choices select the odd one out.

- a. bb c mn b. dd e op c. gg f qp d. mm n wx

Answer: gg f QP

85. Efficiency is all right in its place, in the shop, the factory, the store. The trouble with efficiency is that it wants to rule our play as well as our work; it won't be content to reign in the shop, it follows us home. It can be inferred from the above passage that

Answer: Efficiency can become all-pervading

86. The question consists of a problem question followed by two statements I and II. Find out if the information given in the statement(s) is sufficient in finding the solution to the problem.

Problem question: How is Mr. Sharma related to Santosh?

Statements:

I. Santosh's mother has two daughters

II. Santosh's sister is the wife of Mr. Sharma's son.

Answer: Both statements put together are sufficient in answering the problem question.

CODING:

1. Write an algorithm to help the agency find the number of special characters and whitespaces in a given message.

Input

The input consists of a string message, representing the message that need to be decoded by the agency.

Output

Print an integer representing the number of special characters and whitespaces present in a given message.

Example

Input

Gasgg54@#vcsd!s*

Output

4

Explanation:

The special characters having no meaning are ['@', '#', '!', '*'].

Test Case 1:

Input:

5

6 4 2 3 9

Expected Output

15

Test Case 2:

Input

6

-3 5 -6 9 8 -9

Expected Output

17

Answer:

```
#include <stdio.h>
```

```
#include<string.h>
```



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```
int main()
{
    char a [20],count = 0,i;
    scanf("%s",a);
    for(i = 0; i<strlen(a); i++)
    {
        if(a[i] >= 97 && a[i] <= 122)
        {
            continue;
        }
        else if(a[i] >= 65 && a[i] <= 90)
        {
            continue;
        }
        else if(a[i] >= 48 && a[i] <= 57)
        {
            continue;
        }
        else
        {
            count++;
        }
    }
    printf("%d",count);
    return 0;
}
```

2. A company wishes to devise an order confirmation procedure. They plan to require an extra confirmation instead of simply auto-confirming the order at the time it is placed. For this purpose, the system will generate one-time password to be shared with the customer . The customer who is placing the order has to enter the one-time password to confirm the order. The one-time password generated for the requested orderID,as the product of the digits in th OrderID

Write an algorithm to find the One-Time password for the order ID.

Input:

The input consists of an integer orderID, representing the orderID of the enqueued order.

Output:

Print an integer representing the one-time password generated for the order ID.

Example:

Input

2342

Output

48



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Answer:

```
#include <stdio.h>
```

```
int main()
{
    int a,mul = 1,n;
    scanf("%d", &a);
    n = a;
    while(n > 0)
    {
        a = n%10;
        mul = mul * a;
        n = n/10;
    }
    printf("%d",mul);
    return 0;
}
```

3. Jackson, a math research student, is developing an application on prime numbers. For the given two integers on the display of the application, the user has to identify all the prime numbers within the given range (including the given values). Afterward, the application will sum all these prime numbers. Jackson has to write an algorithm to find the sum of all the prime numbers of the given range.

Write an algorithm to find the sum of all the prime numbers of the given range.

Input

The input consists of two space-separated integers rangeLeft and rangeRight, representing the boundary values of the given range.

Output

Print an integer representing the sum of the largest and smallest prime numbers of the given range.

Constraints

$-10^9 \leq \text{rangeLeft} < \text{rangeRight} \leq 10^9$

Example

Input:

-30-11

Output:

-112

Explanation:

The prime numbers within the given range are -29, -23, -19, -17, -13 and -11. The sum of the prime numbers is -112.

So, the output is -112.

Answer:

```
#include<stdio.h>
int prime(int a,int b);
int main()
{
    int a,b;
    scanf("%d %d",&a,&b);
```



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```
if(a<0 && b<0)
{
    a=a*-1;
    b=b*-1;
    printf("%d",-1*(prime(b,a)));
}
else if(a<0 && b>0)
{
    a=a*-1;
    int x = prime(2,a);
    int y = prime(2,b);
    int z = x*-1+y;
    printf("%d",z);
}
else
{
    printf("%d",prime(a,b));
}
return 0;
}
int prime(int a, int b)
{
    int i, j, sum=0, flag;
    for(i=a; i<=b; i++)
    {
        flag = 1;
        for(j=2; j<=i/2; j++)
        {
            if(i%j==0)
            {
                flag=0;
                break;
            }
        }
        if(flag==1 && i!=1)
        {
            sum = sum + i;
        }
    }
    return sum;
}
```

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