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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 3/5 and 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 3/5 and 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

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14. Problem Question: How many sisters does Mamta have?

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 HobsoWs disease Island L has an economy based entirety on subsistence level agriculture, modern industry of any kind is unknown The inhabitants of Island I 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 me over him. Rohit knew this man, knew him all too well.

Their eyes locked.

As the train readied 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

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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 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 hs 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. Agrarian (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

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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

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

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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

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 (1/2), when it is expressed as a mixed fraction?

Answer: 49(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

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57. Find the next number in the series.
5, 25, 61, 113, …
Answer: 181

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 $[\{(1/8)^{-1}\}^{-4}]^{-1}$
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?

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Answer: They are in partial agreement

- 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@#vscsd!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:

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

int main()
{
   char a [20],count = 0,i;
   scanf("%[^\n]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 interger representing the one-time password generated for the order ID.

Example:
Input
2342
Output

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48

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 <= rangeLeft < rangeRight <= 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()
```


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```
{
int a,b;
scanf("%d %d",&a,&b);
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;
}
```

Slot – 2

1. 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.

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Answer: (C)

2. His dream of holding an exhibition _____ into reality when he shifted to Delhi.
Answer: has turned

3. 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)

4. The teacher announced in the exam hall, "All you have _____ hour".
Answer: is an

5. 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: Part C

6. Read the sentence to find out whether there is any grammatical error in it.
(A) As Maria returned home,/ (B) she found the hall to be empty as/ (C) everyone were hiding in the kitchen./ (D) No error
Answer: Part C

7. Increasing amount of junk from computers in America has forced them to recycle it for further use. One of the _____ units is set up in India.
Answer: recycling

8. The notebooks used by _____ 'Evergreen' Society are made of recycled paper.
Answer: the

9. Months have passed and no action _____ been taken for a dowry harassment case filed against the in-laws.
Answer: has

10. Even though the region was prone to hurricanes, the _____ of the tornado last year was _____.
Answer: ferocity, unprecedended

11. There was no _____ that we were in a fix, as we has no food in the coach.
Answer: denial

12. Read the sentence to find out whether there is any grammatical error in it.
(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. OUTLIVE (Meaning)
Answer: Survive

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14. STERILIZE (Meaning)

Answer: Disinfect

15. REIGN (Meaning)

Answer: Regime

16. The roomboy was asked to clean **vacant** rooms first and then go to the _____ rooms.

Answer: occupied

17. UNIVERSAL (Opposite)

Answer: Local

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.

pattern

Question 18.

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 19.

"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.

Question 20: All these harmful effects of mercury in children EXCEPT:

Answer: Affects driving skills

Question 21: "Researchers are finding harmful effects at lower levels of exposure". How can this line be interpreted?

Answer: Even a little exposure can cause harm

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WIPRO NLTH Slot – 1&2 (18-10-2019)

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 me over him. Rohit knew this man, knew him all too well.

Their eyes locked.

As the train readied 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.

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 22: 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 23: 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

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5. To be domineering towards them

Answer:

Option 5: To be domineering towards them

Question 24: 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

Question 25: What was the biggest reason (stated or implied) for Rohit disliking the man in the metro?

Options:

1. The man was known to be extremely rude and domineering especially with his subordinates
2. The man was remorseless and had not made any effort to reform himself for the better
3. The man did not bother to take care of his parents who were on the verge of being evicted from their humble dwelling
4. The man did not have respect for things or money and while people did not have a place to stay, he had bought a flat which he did not even use

Answer: Option 2

PASSAGE:

The great event of the New York cultural season of 1882 was the visit of the sixty-two-year-old English philosopher and social commentator Herbert Spencer. Nowhere did Spencer have a larger or more enthusiastic following than in the United States, where such works as "Social Statics" and "The Data of Ethics" were celebrated as powerful justifications for laissez-faire capitalism. Competition was preordained; its result was progress; and any institution that stood in the way of individual liberties was violating the natural order. "Survival of the fittest"—a phrase that Charles Darwin took from Spencer—made free competition a social as well as a natural law. Andrew Carnegie admired Spencer enormously and attributed to him the decisive metaphysical epiphany of his life: "I remember that light came as in a flood and all was clear. . . . I had found the truth of evolution. 'All is well since all grows better' became my motto, my true source of comfort." Thanks to Spencer, Victorian capitalists knew that nature was on their side.

Question26: according to author y was spencer so popular in 19th century

a)he supported capitalism

b)he extended Darwins theory of evaluation in the large extend

c)he had 1 broad and simple idea and many specific idea followed from it

d)he was a friend of parsons

Answer: Option C

Question 27: What is the author most likely to agree to in the following?

Option 1 : Darwin's idea of evolution preceded that of Spencer

Option 2 : Both Darwin and Spencer got the idea of the evolution at the same time

Option 3 : Spencer's idea of evolution preceded that of Darwin

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Option 4 : Darwin and Spencer worked on totally different models of evolution

Answer: Option C

Question 28: What must have been the most-likely response/reaction of the New York audience to Spencer's talk in 1882?

Option 1 : Vindication
Option 2 : Surprise
Option 3 : Happiness
Option 4 : Depression

Answer: Option B

Question 29: Which people is the author referring to in the statement: "people who had limited interest in the finches of the Galápagos"?

Option 1 : People who were not interested in the bird finch
Option 2 : People who were not interested in finches in particular from Galapagos.
Option 3 : People who were not interested in animal species or natural evolution
Option 4 : People who did not have interest in birds.

Answer: Option C

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

Answer: 3775

31. P is the father of Q and R. Q is the only son of P. What is R's relation with P?

Answer: Daughter

32. Arrange in sequence

1. Tree 2. Wood 3. Plant 4. Seed 5. Furniture

Answer: 4, 3, 1, 2, 5

33. Pick the Odd one out.

DFE, PRQ, MPN, SUT

Answer: MPN

34. If SAME is coded as VOPH the IDENTICAL is coded as:

Answer:

35. BHE : FLI :: JPM : ?

Answer:

36. Introducing a man, a woman said, "His wife is the only daughter of my father." How is the man related to the woman?

Answer: husband

37. X is the wife of Y. P is the daughter – In – law of Y. Q is the only son of X. How is P related to Q?

Answer: Daughter

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38. A man runs 4 km towards north, then 20 km towards east. Then he runs 4 km towards south. How far is he from his initial position?

Answer: 20 km

39. From the given choices select the odd man out:

FU, DW, CK, NR

Answer: NR

40. Find the next number in the series.

10, 7, 12, 10, 14, …

Answer: 13

41. Problem question: How many people cast their vote in the MCD elections in metropolitan city-Delhi

Statements;

I) The population of India is 2 billion and population of each metropolitan city is 15% of the total.

II) 33% of the total population of Delhi cast their votes in the MCD elections.

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

42. Choose the odd man out

TRIANGLE, SQUARE, PENTAGON, CIRCLE

Answer: CIRCLE

43. Find the next number in the series.

2, 4, 12, 48, …

Answer: 240

44. Problem Question: What is Mohan's rank in the class?

Statements:

I) There are thirty students in the class

II) There are six girls who have scored less than Mohan

Answer: Both the statements together are not sufficient

45. Read the passage carefully and select the statement that can be inferred from it:

Email overload has of-late become a great cause of concern in all organizations. We have reached a stage where our email habits control us. We are obsessed with checking our emails every now and then. We feel bored of working and we glance into our mailbox hoping to have received some "scintillating" mail. Obviously it also gives us an illusionary impression that we are working. Not missing any mail and replying to each one of them has become a custom. Our addiction to this leads our ignorance of deadlines, meetings, personal chit chat with fellow employees. It's a shame that we have inculcated a habit of reading mails but not of taking timely actions on the mails.

Options:

a. Employees find reading mails to be more interesting than working

b. Replying to each and every mail is not a good habit

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c. Addiction of reading and replying to every mail may have adverse effect in our performance

d. All mails are sent on the premise that timely action to be taken on them

Answer: Addiction of reading and replying to every mail may have adverse effect in our performance

46. Read the passage carefully and select the statement that can be inferred from it:

"European cars have traditionally been smaller and more fuel-efficient than their giant American cousins, but current policy explicitly stresses eco-friendliness. For example, recent British legislation has linked taxation to CO2 emissions with the lowest tax rate of 15 percent on the list price reserved for cars emitting less than 165 gms/km and rising by one percent for each 5 gm increase in CO2 levels."

A. The British are unconcerned about the environment and rules have to be imposed upon them for maintenance of a clean environment

B. The lesser the list price of a car, the greater is its fuel efficiency and so lesser the tax on it

C. The more fuel efficient a vehicle is, the more eco friendly it will be

D. Fuel efficiency does not necessarily correlate with eco-friendliness

Answer: The British are unconcerned about the environment and rules have to be imposed upon them for maintenance of a clean environment

47. Find the next number in the series

3, 15, 35, 63, …

Answer: 99

48. Select the off one out

RKOX, RRIVE, ADNS, LNDA

Answer: RRIVE

49. What is the value of $(5^{-2} X 10^{-4})/(2^{-5} x 5^{-6})$

Answer: 2

50. A restaurant prepares 22 litres of a mixture that contains 25% of orange essence and the remaining quantity as water. If 3 litres of water is mixed in this mixture,what will be the percentage of orange essence in the new mixture?

Answer:22%

51. A flower seller purchases roses at rs 96 a dozen and sells them at 10 rupees fo flower. What is the profit percent of the flower seller?

Answer: 25%

52. Three marketers distribute their products in a colony for pilot testing Marketer A distributes 150 items to the people equally and then was left with a few items Marketer B distributes 270 items to the people equally and then was len with the same number of Items as the number len with Marketer A Marketer C distnbutes 320 items to the people and is len with the same number of items as the number left with Marketer A What is the maximum possible number of people in the colony'

Answer: 10

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53. A number is multiplied by 11 and 11 is added to the product if the resulting number is divided by 13 what is the smallest number:
Answer: 12

54. Swaroop draws a certain amount of money from ATM machine. Number of rs.S00 notes are double the number of Rs.100 notes. Which of the following can be possible amount drawn
Answer: 8800

55. The light from a laser beam travels at a speed of 300000000 m/s how far it is seen after 20 nano seconds
Answer: 6 m

56. An air conditioner can cool the hall in 40 miutes while another takes 45 minutes to cool under similar conditions. If both air conditioners are switched on at same instance then how long will it take to cool the room approximately ?
Answer: 22 minutes

57. During a quality control conference if 30 employees are seated in column, then 50 column could be formed.However, if 25 employees are seated in a column then how many such columns could be formed?
Answer: 60

58. Buy one get 1 free offer. Selling price of a t-shirt is 2400. Shopkeeper says he got 33.33% profit. what is cost price ?
Answer: 900

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59. Rahul can finish one-fifth of his homework in one hour. Neha can finish threeseventh of her homework in one hour thirty minutes and riya can finish three fourth of her homework in three hours thirty minutes. If all of them start their homework at 12.00 p.M. And can go to play as soon as they all finish their homework, when can they start to play, if they take a break at 3.30 p.M. For thirty minutes?
Answer: 5:30 PM

60. What are the number of ways of selecting 7 files out of 14 distinct files?
Answer: 13C6

61. The velocity of water flowing over a waterfall is 12m/sec. After going over the fall the water slows 6m/s in 3 seconds. What is the acceleration of water?
Answer: (-) 2m/s^2

62. What is the value of (5^2 * 25^8/625)^2/7?
Answer: 625

63. Every year before the festive season, a shopkeeper increases the price of the products by 35% and then introduces two successive discounts of 10% and 15% respectively.What is the percentage loss or gain?
Answer: 3.275% gain

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64. The product of two numbers is 2208. If the LCM of the numbers is 552, what is their HCF?
Answer: 4

65. Identify the set of all the positive integers.
Answer: (1, 2, 3, 4, ….)

66. A total profit of Rs. 36000 is to be distributed among Rajesh, Salesh and Rajeev such that Rajesh : Salesh :: 5:4 and Salesh : Rajeev :: 8:9. What is the share of Rajeev?
Answer: 12000

67. 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.
Answer: Efficiency can become all pervading

68. What is the value of the expression: 5 * (2 + 16)/2 - 4 * (2 + 2) + 1/4 of 16?
Answer: 33

69. Problem Question: A more reactive metal can displace a less reactive metal from its salt solution. Which of the following is the most reactive?
Statements:
I. A can displace neither B nor C.
II. C can displace A.
Answer: Both the statement even put together are not sufficient.

70. Problem Question: Soha ranks fifth in the class. How many students are there in the class?
Statements:
I. One of her friends got the 40th rank which is the second last rank in the class.
II. Her rank from the middle is 17.
Answer: Statement I alone is sufficient

71. a, b and c are such that b is the simple interest on a and c is the simple interest on b for the same period and the same rate of interest. the relation between these three is:
Answer: $b^2 = ac$

72. Find the cube of $(21)^{2/7}$
Answer: $3^6 \times 7^3$

73. By what number should (-6) ^(-1) be multiplied so that the product becomes $(-8)^{(-1)}$?
Answer: -¾

74. The lcm and hcf of two numbers are 2970 and 30 respectively:
Answer: 2, 3, 5, 11

75. Deepa Mehta's Fire is under fire from the country's self-appointed moral police. Their contention is that the film is a violation of the Indian cultural moral and cannot be allowed to influence the Indian psyche. According to them such films ruin the moral fabric of the nation which must be protected and defended against such intrusions at all cost even at the cost of cultural dictatorship. Based on the information in the above passage it can be inferred that

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Answer: the assumption underlying the moral police's critique of Fire is that Indian audience is impressionable and must be protected against 'immoral' influences

76. What is probability of making an even number of 4 digit using 1234
Answer: ½

77.
1. Restaurant 2. Plan 3. Menu 4. Celebrate 5. Order
Answer: 2, 1, 3, 5, 4

78. What is the value of (a^3)^5/(a^2)^4
Answer: a^7

79. A player x stands 50 yards away from y in the west. he moves 10 yards straight towards south and then turns eastward going upto 50 yards, while y also comes down southward and meets x at the same point. how far is y from his original position?
Answer: 10 Yards

80. How many 4 digit numbers can be made using the 1, 2, 3, 4, 5, 6, 7 with none of them being repeated?
Answer: 840

81. Rahul is facing south. He walks straight for 15 meters and turns left and walks 25 meters, then turns left again and walks 15 meters, finally he turns left and walks 40 meters. How far and in which direction is he standing from the starting point?
Answer: 15 M West

82. Ram is five years elder to his youngest sibling shreya. Shreya is two years younger than her brother ritesh. Ritesh is 13 years old and is ram's brother. How old will ram be in two years from now?
Answer: 18 years

83. The number 456*85 is completely divisible by 3. smallest whole digit number in place of * can be:
Answer: 2

84. Sagar walks 30 meters west and takes a left turn to walk 10 meters, then takes left turn again and walks 40 meters, and takes another left turn and walks 20 meters. In which direction is he standing now from the starting point?
Answer: North-East

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CODING

Q1

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 interger representing the one-time password generated for the order ID.

Example:
Input
2342

Output
48

Explanation: On multiplying the digits of the order ID, the one-time password generated is 48 (2*3*4*2)

ANSWER:

```
#include<stdio.h>
int main()
{
   int n,i,count=0;
   scanf("%d",&n);
   int arr[n];
   for(i=0;i<n;i++)
   {
      scanf("%d",&arr[i]);
   }
   for(i=0;i<n;i++)
   {
      if(arr[i]<0)
      {
         count++;
      }
   }
   printf("%d",count);
   return 0;
}
```


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Q.2
The second line consists of N space-separated integers - ac1, ac2,....., acN representing the balance in each account.

Output
Print an integer representing the number of dormant accounts that must be closed for negative balance.

Contraints
0 <= numOfAccounts <= 10^6
-1006 <= balance <= 1006
0 <= i < numOfAccounts

Example
Input:
10
-5 -3 8 -6 -7 18 10 -4 -3 11

Output:
6

Explanation:
The accounts that must be closed for negative balance are at indices [0, 1, 3, 4, 7, 8] i.e. [-5, -3, -6, -7, -4, -3]
So, the output is 6.

TestCase1:

Input:
Comiccomedy
Expected Output:
4

TestCase2:

Input:
amcam
Expected Output:
1

Answer:

```
import java.util.*;
 class Main {
   static final int NO_OF_CHARS = 256;


   static void printDistinct(String str)
   {
      int[] count = new int[NO_OF_CHARS];
      int i;
      for (i = 0; i < str.length(); i++)
```


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```
        if(str.charAt(i)!=' ')
            count[(int)str.charAt(i)]++;
    int n = i,sum=0;


    for (i = 0; i < n; i++)
        if (count[(int)str.charAt(i)] == 1)
        {
            sum++;
        }
            System.out.printf("%d",sum);
  }


  public static void main(String args[])
  {
    Scanner sc=new Scanner(System.in);
    String str=sc.next();
    printDistinct(str);
  }
}
```

Q. 3
Write an algorithm to generate the roll number from the given application number.

Input
The input consists of two space-separated positive integers - applicaNum and key, representing the application number and key(K), respectively.

Output
Print an integer representing the roll number.

Constraints
0 < applicaNum <= 10^9

Example
Input:
43251 3

Output:
25143

TestCase 1:

Input:
78512 3
Expected Output:
12785

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TestCase 2:

Input:
5672614
Expected Output:
656725

ANSWER:

```
#include<stdio.h>
int leftrotate(int arr[],int n,int length)
{
   int i,first,j;
   for(i=0;i<n;i++)
   {
      first = arr[0];

      for(j=0; j<length-1; j++)
      {
         arr[j] = arr[j + 1];
      }
      arr[length-1] = first;
   }
   for(i=0;i<length;i++)
      printf("%d",arr[i]);
}
int rightrotate(int arr[],int n,int length)
{
   for(int i = 0; i < n; i++)
   {
      int j, last;
      last = arr[length-1];

      for(j = length-1; j > 0; j--)
      {
         arr[j] = arr[j-1];
      }
      arr[0] = last;
   }
   for(int i=0;i<length;i++)
      printf("%d",arr[i]);
}
int main()
{
   int num,key,count=0,x=0,arr[10],i;
   scanf("%d",&num);
```


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```
    int dub=num;
    scanf("%d",&key);
    while(num>0)
    {
        arr[x]=num%10;
        count++;
        num=num/10;
        x++;
    }
    int temp[count];
    x=0;
    for(i=count-1;i>=0;i--)
    {
        temp[x]=arr[i];
        x++;
    }
    if(dub%2==1)
    {
        rightrotate(temp,key,count);
    }
    else
    {
        leftrotate(temp,key,count);
    }
}
```

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