

OE7	GE5	X7
EU3		CX6
NV3	IM6	U4

Step I

U7	IM6	NV7
CX6		EU3
X3	GE5	OE4

Step II

T9	JL8	OW4
DY3		DT5
Y1	HD3	ND6

Step III

OE6	GC6	Z2
EU2		CX6
PV3	KM5	U4

Input:

U4	EO9	EO8
TS7		G6
AI3	IN2	OS4

1. In step II, which of the following letter/number occur more than twice?

- A. 5**
- B. p**
- C. 4**
- D. 4 and 6**
- E. R**

2. In Step III, what is the product of the sum of numbers in the first column and the sum of numbers in the third column?

- A. 124**
- B. 78**
- C. 84**
- D. 108**
- E. None of these**

3. In Step II, what is the difference between the sum of numbers in the first row and the sum of numbers in the second row?

A. -2

B. 7

C. 2

D. 9

E. 3

4. In Step III, what is the sum of numbers in the third row?

A.9

B.8

C.17

D.15

E.12

Input:

U4	EO9	EO8
TS7		G6
AI3	IN2	OS4

Step I

OS4	IN2	AI8
G6		TS7
EO3	EO9	U4

Step II

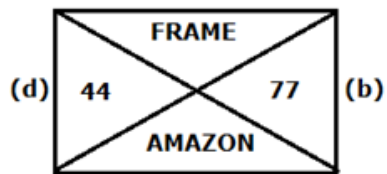
PR6	JM4	BJ5
H4		UT4
DN5	FP6	T6

Step III

U4	GQ3	EO2
VS6		I2
CK2	IL7	QS3

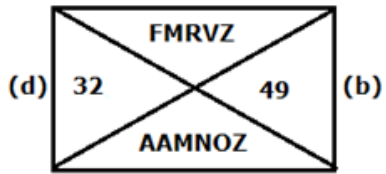
(INPUT)

(a)



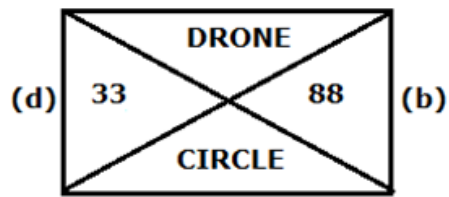
(OUTPUT)

(a)



(INPUT)

(a)



(c)

1. Which of the following letters represents the element of triangle (a) of the output figure?

A.DLNRV

B.DLRNV

C.DENOR

D.RONED

E. None of these

2. What is the sum of the numbers obtained in the triangle (b) and triangle (d) of the output figure?

A. 127

B. 117

C. 107

D. 137

E. None of these

3. Which of the following letters represents the element of triangle (c) of the output figure?

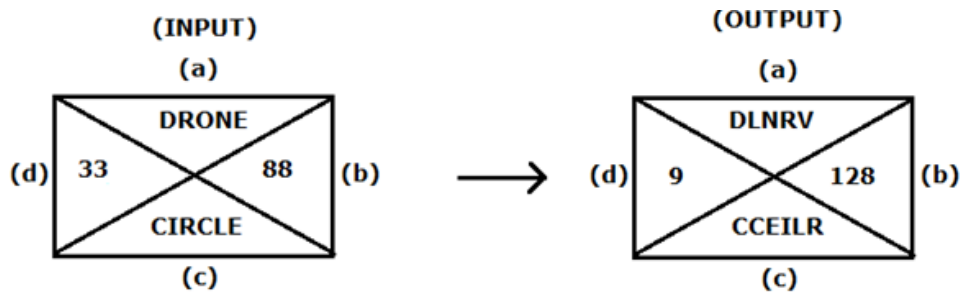
A.CCEILR

B.CCELRI

C.ECEILR

D.CCEIRL

E.None of these



Explanation

For Words – if the sum of the place value of all the letters of the word is divisible by 5 then the letter of the word is arranged in the English alphabetical order, but if the sum of the place value of all the letters of the word is not divisible by 5 then the alphabet of the word arranged in the alphabetical order after changing the vowel by its opposite letter in the alphabetical order.

For Numbers- if the given two digit number are divisible by both 4 and 11 then number is changed by the resultant of their sum of the square of each digit, but if the sum of the digits of the given two digit number is not divisible by both 4 and 11 then the number is replaced by the multiplication of the digits within the number.

Input: Land 73 59 Tent 35 Shut Born 67 Find 91

Step 1: 37 Land 73 59 Tent Born 67 Find 91 Shot

Step 2: B4rn 37 Land 73 Tent 67 Find 91 Shot 61

Step 3: 69 B4rn 37 Land 73 Tent 91 Shot 61 Fnd

Step 4: T4nt 69 B4rn 37 Land 91 Shot 61 Fnd 75

Step 5: 93 T4nt 69 B4rn 37 Shot 61 Fnd 75 Land

Input: Thin 83 Bush 57 Jack 23 75 Rest 41 Grow

4. In which of the following step of the given input, the element "83 Jack 75" occurs in the same order?

A. Step 2 B. Step 4 C. Step 3 D. Step 1 E. Cannot be determined

5. How many elements are there between '43' and '59' in step 4 of the given input?

A. Three B. Four C. Seven D. Six E. None of these

6. Which of the following element is fourth to the right of '59' in step 3 of the given input?

A. 83 B. Jack C. 75 D. Rest E. None of these

7. Which of the following option is correct with respect to step 5 of the given input?

A. Rest 59 Grøw 25 Bøsh 43

B. Rest 59 Grøw 25 Jøck 83

C. 85 Rest 59 Jøck 25 Grøw

D. 85 Jøck 59 Thøn 25 Bøsh

E. None of these

Input: Thin 83 Bush 57 Jack 23 75 Rest 41 Grow
Step 1: 25 Thin 83 57 Jack 75 Rest 41 Grow Bosh
Step 2: Gr¥w 25 Thin 83 57 Jack 75 Rest Bosh 43
Step 3: 59 Gr¥w 25 83 Jack 75 Rest Bosh 43 Thon
Step 4: Rst 59 Gr¥w 25 83 Jack Bosh 43 Thon 77
Step 5: 85 Rst 59 Gr¥w 25 Bosh 43 Thon 77 Jack

In each step, one number and one word are arranged simultaneously on both the ends. The number and words are alternatively placed on both the ends.

For numbers: The numbers are taken in an ascending order from left to right alternatively with words and in each step, 2 is added to that number after positioning.

For words: The words are taken in reverse alphabetical order with respect to the vowels present in the word (The word having 'u' arranged first, followed by 'o' then 'i' and so on). The vowel letters are replaced with symbols are follows: u=◇, o=¥, i=●, e=⊗, a=∅.

Input: 53962 41785 65371 57942 81346 39257

Step I: 96421 86441 66421 96441 86421 96421

Step II: 96864 42141 66964 42141 86964 42121

Step III: 98664 11442 96664 11442 98664 11422

Step IV: 924 1110 922 1110 924 118

Step V: 15 3 13 3 15 10

Step VI: O C M C O J

Input: 37968 63712 52381 41394 19652 82137

7. What is the difference of largest and smallest number in step 5?

- A. 5**
- B. 4**
- C. 3**
- D. 6**
- E. None of these**

8. What is the sum of the digits of the largest number in step 4?

- A. 7**
- B. 8**
- C. 6**
- D. 5**
- E. None of these**

9. What is the product of digits of 3rd smallest number in step 3?

- A. 4608**
- B. 4**
- C. 72**
- D. 5184**
- E. None of these**

Input: 37968 63712 52381 41394 19652 82137

Step I: 98662 66211 84211 94421 96411 86211

Step II: 98662 66211 84944 21121 96862 41111

Step III: 98662 11662 98444 11122 98662 11114

Step IV: 922 1114 920 1114 922 11114

Step V: 13 7 11 7 13 8

Step VI: M G K G M H

In Step I, the digits within each number are written in decreasing order from left to right and 1 is subtracted from the prime digits.

In Step II, last three digits of 1st number is replaced by the first three digits of 2nd number. Similarly, last three digits of 3rd number is replaced by the first three digits of 4th number. Same is done with 5th and 6th number.

In Step III, within each numbers, odd digits are written in decreasing order followed by even digits in decreasing order.

In Step IV, leave the odd digits unchanged, sum of even digits is written in every number.

In Step V, sum of digits within the number is written.

In Step VI, respective alphabets (in the alphabetical series) of each number are written.

Input: omnivory townskip preremoved mudworts aldoxime gumlands

Step I: moinovyr piksnwot devomerp strowdum laodixem sdnalmug

Step II: oqkppxat rkmupyqv fgxqogtr uvtqyfwo ncqfkzgo ufpcnowi

Step III: fgxqogtr ncqfkzgo oqkppxat rkmupyqv ufpcnowi uvtqyfwo

Step IV: fggqrxo cfgknqzo kpqqt xao kmpqrvyu cfnpwiou fqtvwyou

Step V: fqr tx c f g k n q z k p t x k m p q r v y c f n p w f q t v w y

Step V is the last step of the input.

Find the steps of the following input.

Input: pownding underbit wordgame yawniest biofacts coalmine

10. Which of the following letters don't appear in step IV?

A. D

B. Y

C. H

D. I

E. None of these

11. What is the fifth word from the right end in step III?

- A. pwgfdtvk
- B. ipkfpqyr
- C. gpkoncqe
- D. gociftqy
- E. None of these

12. How many times "Q" appears in the last step ?

- A. 2
- B. 3
- C. 4
- D. 5
- E. 6

Input: pownding underbit wordgame yawniest biofacts coalmine

In step I, the letters of the word are reversed if it starts with a consonant and the letters are reversed in sets of two letters (i.e. four sets of letters in each word) if the word starts with a vowel.

Step I: gnidnwop nuedbrti emagdrow tseinway stcafoib enimlaoc

In step II, each letter of each word is changed to the letter that comes after two successive positions alphabetically. For example: 'a' will be changed to 'c', .. 'z' will be changed to 'b'.

Step II: ipkfpqyr pwgfdtkv gociftqy vugkpyca uvechqkd gpkoncqe

In step III, the new words formed are arranged in dictionary order.

Step III: gociftqy gpkoncqe ipkfpqyr pwgfdtkv uvechqkd vugkpyca

In step IV, the consonants are arranged alphabetically first, followed by the vowels arranged alphabetically within each word.

Step IV: cfgqtyio cgknpqeo fkppqryi dfgkptvw cdhkqveu cgkpvya

In step V, the vowels are removed along with the consonants that appear twice.

Step V: cfgqty cgknpq fkqry dfgkptvw cdhkqv cgkpv

Input: Vidya Batch Mains Level Reasoning Content

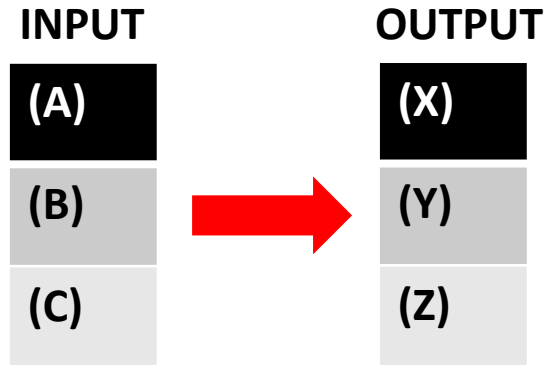
Step 1: Adivy Abcht Aimns Eellv (P) Cennott

Step 2: 30 25 (Q) 27 28 27

Step 3: 10 (R) 22 30 30

Based on the below given conditions, output is created:

1. If it's an even number in the input, then double it and subtract 5 from it to get the output.
2. If it's an odd number in the input, then add sum of its digits and product of its digits to get the output.



- Note:
- (A) is the alphabetical place value of the 4th letter in the word (P).
 - (B) is the sum of the squared digits of the number (Q).
 - (C) is the square of the sum of the digits of the number (R).

19. What is the sum of (A) , (B) and (C) ?

- A. 124**
- B. 135**
- C. 115**
- D. 105**
- E. None of these**

20. What is the sum of (X) , (Y) and (Z) ?

- A. 65**
- B. 72**
- C. 75**
- D. 68**
- E. None of these**

Logic:

Step 1 – Write the letters in alphabetical order within the word.

Step 2 – Add alphabetical place value of last letter with number of letters in the word.

Step 3 – Product of digits then add them for adjacent numbers.