



MISSION IBPS 2024



Reasoning

TOPIC BOOSTER



MAINS MANIA- MISCELLANEOUS-2

 LIVE 09:00 AM



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Study the given information carefully and the questions given below it:

In a certain code language, the symbol for 0 (zero) is % and that for 1 is &. There are no other symbols for numbers and all numbers greater than 1 are written using these two symbols only, the value of the symbol for 1 doubling itself every time it shifts one place to the left. Thus:

- 0** is written %
- 1** is written &
- 2** is written &%
- 3** is written &&
- 4** is written &%% and so on



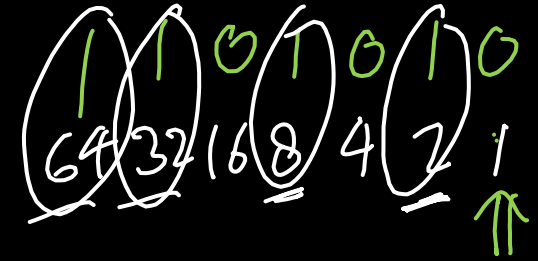
How will 57 be coded as in the same code language?

- A. &%%&&&
- B. &%%%%&%
- C. %&%%%%&
- D. &&&%%&
- E. &&%&&%

	<u>32</u>	<u>16</u>	<u>8</u>	x	x	
				4	2	<u>1</u>
				0	0	
	2	2	2	%	%	2



Which of the following will represent **&&%&%&%** ?



A. 101

B. 103

C. 106 ✓

D. 105

E. 98



&%&& is multiplied to **&&%&** what will be the resultant?

⑧ 4 ② ①

⑧ 4 2 ①

⑬

- A.** &%%%&&&&
- B.** &&&%&%&&
- C.** &&&%&&%%
- D.** &&%%%&&&
- E.** &%&&%&&

$\begin{array}{r} 128 \\ \times 2 \\ \hline 256 \end{array}$
 $\begin{array}{r} 64 \\ \times 2 \\ \hline 128 \end{array}$
 $\begin{array}{r} 32 \\ \times 2 \\ \hline 64 \end{array}$
 $\begin{array}{r} 16 \\ \times 2 \\ \hline 32 \end{array}$
 $\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$
 $\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$
 $\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$

$\begin{array}{r} 143 \\ \hline 143 \\ \hline 286 \\ \hline 429 \\ \hline 572 \end{array}$

20



If $(241684)21$ is divided by (8421) what will be the resultant?

$$(45) / 9 = 5$$

A. $8\% \%$

B. $\&\&\%$

C. $\&\%\&$

D. $\%\%\&$

E. $\%\&\&$

$$\begin{array}{r} \sim \times \sim \\ 421 \\ \underline{2\%2} \end{array}$$





Which of the following will represent $\frac{2}{5}^{\text{th}}$ of 45 in that code?

- A. &&%&%
- B. &%%&%
- C. &%&%&
- D. &&%%&
- E. &&&&%

$$\frac{45}{5} \times 2$$

18

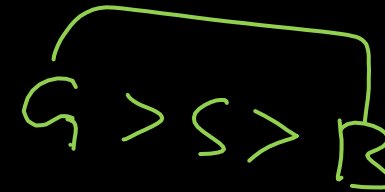
✓	x	x	✓	x
16	8	4	2	1
1	0	0	1	0
2	%	%	2	%

20



Which of the following expressions is true if the expression $P < F \geq E > G > N$; $Q > B < T < S$; $Y \leq N > S$ is true?

- ~~a) $Y < T$~~
- ~~b) $F \geq Y$~~
- ~~c) $P < B$~~
- d) $G > B$
- e) $N \geq Q$





Which of the following symbols should be placed in the blank spaces respectively (in the same order from left to right) in order to complete the given expression in such a manner that both “ $G \geq F$ ” as well as “ $K > E$ ” definitely Holds true?



$V < G _ Q \geq Y \geq I > E; K > F = T _ L = I > F$

a) =, <

b) \geq , =

c) >, >

d) \geq , <

e) Other than those given as options





Which of the following order of the letter in the blanks makes the expression $R < N$ and $I > Q$ is definitely true?

$R < N$ and $I > Q$

- a) RYTNIJQ ←
- b) YNTQRWI ✗
- c) NEIORVQ ←
- d) YNEQRVI ✗
- e) None of the above



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आरंभ बैच



Decending

Input: 6483 7426 3819 1942 9871 5681

Step I: 8643 7642 9831 9421 9871 8651

Step II: 8645 7643 9833 9423 9873 8653

Step III: 644 641 833 423 873 652

Step IV: 60 63 80 41 84 63

Step V: 06 09 08 05 12 09

Step V is the last step.

Input: 8762 9583 4761 5283 7726 6831

I: 8762 9583 7641 8532 7762 8631
 8763 9555 7643 8533 7763 8633
 763 855 641 832 761 632
 73 80 83 81 78 61
 08 09 06 12 07

$\frac{D_2 D_3}{23} (D_1 + D_4)$

$D_4 (D_2 - D_3) 1+3 = 4$

Digit Sum

$1+0 = 1$

=



Input: 6483 7426 3819 1942 9871 5681

Step I: 8643 7642 9831 9421 9871 8651

Step II: 8645 7643 9833 9423 9873 8653

Step III: 644 641 833 423 873 652

Step IV: 60 63 80 41 84 63

Step V: 06 09 08 05 12 09

Step V is the last step.

7641

Input: 8762 9583 4761 5283 7726 6831

What is the final output of “4761”?

- a) 09
- b) 08
- c) 11
- d) 12
- e) 14



Input: 6483 7426 3819 1942 9871 5681

Step I: 8643 7642 9831 9421 9871 8651

Step II: 8645 7643 9833 9423 9873 8653

Step III: 644 641 833 423 873 652

Step IV: 60 63 80 41 84 63

Step V: 06 09 08 05 12 09

Step V is the last step.

Input: 8762 9583 4761 5283 7726 6831

How many two-digit numbers are formed in the final output?

a) One

b) Four

c) Three

d) Two

e) None of the above



Input: 6483 7426 3819 1942 9871 5681

Step I: 8643 7642 9831 9421 9871 8651

Step II: 8645 7643 9833 9423 9873 8653

Step III: 644 641 833 423 873 652

Step IV: 60 63 80 41 84 63

Step V: 06 09 08 05 12 09

Step V is the last step.

HW 1

Input: 8762 9583 4761 5283 7726 6831

What is the sum of the number which is second from the left end and third from the right end in step IV?

- a) 141
- b) 135
- c) 131
- d) 152
- e) 136



Input: 6483 7426 3819 1942 9871 5681

Step I: 8643 7642 9831 9421 9871 8651

Step II: 8645 7643 9833 9423 9873 8653

Step III: 644 641 833 423 873 652

Step IV: 60 63 80 41 84 63

Step V: 06 09 08 05 12 09

Step V is the last step.

HW-2

Input: 8762 9583 4761 5283 7726 6831

What is the sum of the digits of the number which is fourth from the right end in step II?

- a) 22
- b) 23
- c) 19
- d) 20
- e) 24

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Thank
you!