

Sections

1

2

i Important Instructions & Guidelines

(expand)

Next Letter

10 marks

Problem statement

Implement the following function:
def NextLetter(ch1, ch2):

The function accepts two characters 'ch1' and 'ch2' as its argument. 'ch1' and 'ch2' are alphabetical letters. Implement the function to find and return the next letter so that distance between ch2 and the next letter is the same as the distance between ch1 and ch2. While counting distance, if you exceed the letter 'z' then, count the remaining distance starting from the letter 'a'.

Distance between two letters is the number of letters between them.

Assumption: All input and output characters are lower case alphabets.

Example:**Input:**

ch1: c
ch2: g

Output:

k

Explanation:

the distance between the letter 'c' and 'g' is 3 (d, e, f). The next letter with distance 3 from letter 'g' is 'k'. Thus, the output is k.

Instructions :

- This is a template based question, DO NOT write the "main" function.
- Your code is judged by an automated system, do not write any additional welcome/greeting messages.
- "Save and Test" only checks for basic test cases, more rigorous cases will be used to judge your code while scoring.
- Additional score will be given for writing optimized code both in terms of memory and execution time.
- Your code will run on Python 3.5

Now let's start coding :

C C++ Java C# Python

Read-only code below . . .

```
1 # Input Read from STDIN
2 result = NextLetter(ch1, ch2)
3 # Value in result is printed to STDOUT
4
```

Write your code below . . .

```
5 def NextLetter(ch1, ch2):
6     # Write your code here.
7
8
9
```



41 : 42

Sections
1
2

The next letter with distance 3 from letter 'g' is 'k'.
Thus, the output is k.

Sample Input

ch1: r

ch2: l

Sample Output

f

Save & Test

Reset

```
user@code:~$language Python  
language changed to python ...  
user@code:~$
```

2 Maximum Index Product

20 marks

You haven't attempted this question. Attempt?

Submit and Logout



Welcome 1018462

41 : 04
min sec

Sections

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15

Explanation:

Index product:

- Index product of index 0 = $0 \times 1 = 0$
- Index product of index 1 = $0 \times 3 = 0$
- Index product of index 2 = $1 \times 3 = 3$
- Index product of index 3 = $0 \times 0 = 0$
- Index product of index 4 = $3 \times 5 = 15$
- Index product of index 5 = $3 \times 0 = 0$
- Index product of index 6 = $5 \times 0 = 0$

The maximum index product is 15. Thus, the output is 15.

Sample Input

arr: 1 5 4 3 5 2

Sample Output

8

10 {
11 } /* Write your code here.. */
12
13
14
15
16

line: 13, column: 2

Save & Test

Reset

user@code:~\$

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min sec

1 Next Letter 10 marks

You haven't attempted this question. Attempt?

Sections

1 Maximum Index Product 20 marks

2

Problem statement

Implement the following function:

```
int MaxIndexProduct(int* arr, int n);
```

The function accepts an integer array 'arr' of size n. Implement the function to find and return maximum index product. For every index 'j', index product $\text{Left}(j) \times \text{Right}(j)$. $\text{Left}(j)$ = an index 'k' which is closest to index 'j', such that $k < j$ and $\text{arr}[k] > \text{arr}[j]$, if no such index 'k' exists then $\text{Left}(j) = 0$. $\text{Right}(j)$ = an index 'l' which is closest to index 'j', such that $l > j$ and $\text{arr}[l] > \text{arr}[j]$, if no such index 'l' exists then $\text{Right}(j) = 0$.

Assumption: Element at index 0 is the smallest.

Note:

- Return -1 if the array is empty (or None in the case of python).
- Indexing starts from 0.

Example:

Input:
arr: -3 4 3 6 4 5 -2

Output:
15

Explanation:
Index product:

Instructions :

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Now let's start coding :

C C++ Java C# Python

> Read only code below ...

```
1 int MaxIndexProduct(int* arr, int n);
2 int main()
3 {
4     //Input read from STDIN
5     int result = MaxIndexProduct(arr, n);
6     //Value in result printed to STDOUT
7     return 0;
8 }
```

> Write your code below ...

```
10 int MaxIndexProduct(int* arr, int n)
11 {
12     /* Write your code here */
13 }
```

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hp

Exam Browser 1.3.7

min sec

1 Next Letter 10 marks

You haven't attempted this question. Attempt?

Sections

1 Maximum Index Product 20 marks

2

Problem statement

Implement the following function:

```
int MaxIndexProduct(int* arr, int n);
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arr: -3 4 3 6 4 5 -2

Output:
15

Explanation:
Index product:

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Now let's start coding :

C C++ Java C# Python

> Read only code below ...

```
1 int MaxIndexProduct(int* arr, int n);
2 int main()
3 {
4     //Input read from STDIN
5     int result = MaxIndexProduct(arr, n);
6     //Value in result printed to STDOUT
7     return 0;
8 }
```

> Write your code below ...

```
10 int MaxIndexProduct(int* arr, int n);
11 {
12     /* Write your code here */
13 }
```

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Exam Browser 1.3.7

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41 : 04
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Sections

1

2

15

Explanation:

Index product:

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- Index product of index 3 = $0 \times 0 = 0$
- Index product of index 4 = $3 \times 5 = 15$
- Index product of index 5 = $3 \times 0 = 0$
- Index product of index 6 = $5 \times 0 = 0$

The maximum index product is 15. Thus, the output is 15.

Sample Input

arr: 1 5 4 3 5 2

Sample Output

8

10 {
11 } /* Write your code here.. */
12
13
14
15
16

line: 13, column: 2

Save & Test

Reset

user@code:~\$

Submit and Logout

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Problem statement

Hide problem statement

Implement the following function:

```
char NextLetter(char ch1, char ch2);
```

The function accepts two characters 'ch1' and 'ch2' as its argument. 'ch1' and 'ch2' are alphabetical letters. Implement the function to find and return the next letter so that distance between ch2 and the next letter is the same as the distance between ch1 and ch2. While counting distance if you exceed the letter 'z' then, count the remaining distance starting from the letter 'a'.

Distance between two letters is the number of letters between them.

Assumption: All input and output characters are lower case alphabets.

Example:

Input:

ch1: c

ch2: g

Output:

k

Explanation:

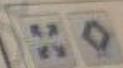
the distance between the letter 'c' and 'g' is 3 (d, e, f).
The next letter with distance 3 from letter 'g' is 'k'.
Thus, the output is k.

Sample Input

Instructions :

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- Your code is judged by an automated judge welcome/greeting message.
- "Save and Test" only checks for basic test cases to judge your code while scoring.
- Additional score will be given for writing efficient execution time.

Now let's start coding :



> Read-only code below

```
1 char NextLetter(char ch1,  
2 int main()  
3 {  
4  
5  
6  
7  
8 }  
9
```

> Write your code here

```
10 char NextLetter(  
11 char ch1,  
12 char ch2)  
13 {  
14 char result = 'a';  
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55333111111111111111111111113  
55333111111111111111111111114  
55333111111111111111111111115  
55333111111111111111111111116  
55333111111111111111111111117  
55333111111111111111111111118<br
```

Welcome 1008224

Distance between two letters is the number of letters between them.

Assumption: All input and output characters are lower case alphabets.

Example:

Input:

ch1: c

ch2: g

Output:

k

Explanation:

the distance between the letter 'c' and 'g' is 3 (d, e, f).

The next letter with distance 3 from letter 'g' is 'k'.

Thus, the output is k.

Sample Input

ch1: r

ch2: l

Sample Output

f

64536-35

```
1 char NextLetter(char ch1, char ch2)
2 int main()
3 {
4     //Input and flow logic
5     char result = NextLetter('c', 'g');
6     //Value of result printed to screen
7     cout << result;
8     //Output
9 }
```

➤ Write your code below:

```
10 char NextLetter(char ch1, char ch2)
11 {
12     // Write your code here. ^
13 }
14
15
16
```

Save & Test

user@codevita:~/language/c\$ user@cod

Welcome 1008224

Problem statement

[Hide problem statement](#)

Implement the following function:

```
int MaxIndexProduct(int* arr, int n);
```

The function accepts an integer array 'arr' of size n. Implement the function to find and return maximum index product. For every index 'j', index product = $\text{Left}(j) \times \text{Right}(j)$. $\text{Left}(j)$ = an index 'k' which is closest to index 'j', such that $k < j$ and $\text{arr}[k] > \text{arr}[j]$, if no such index 'k' exists then $\text{Left}(j) = 0$. $\text{Right}(j)$ = an index 'l' which is closest to index 'j', such that $l > j$ and $\text{arr}[l] > \text{arr}[j]$, if no such index 'l' exists then $\text{Right}(j) = n$.

Assumption: Element at index 0 is the smallest.

Note:

- Return -1 if the array is empty (or None in the case of python).
 - Indexing starts from 0.

Example:

Input:

Input:
arr: -3 4 3 6 4 5 -2

Output:

15

15 Explanation: product

Explanation Index product:

- Index product of index 0 = $0 \times 1 = 0$
 - Index product of index 1 = $0 \times 3 = 0$

Instructions:

- This is a template based routine. It will write out your code in an advanced format, as well as welcome/greeting messages.
 - "Save" and "Test" very closely to help you code, and judge your code while writing.
 - Additional score will be given for writing optimized execution time.

Now let's start coding:

```
> Read-only code below  
1 int MaxNumber(int m, n, int result)  
2 int main()  
3 {  
4     // Input read from STDIN  
5     int result = MaxNumber(6, 7);  
6     // Value to result will be printed  
7     return 0;  
8 }
```

10 int Assisted
11 write
12
13
14
15
16

Welcome 1008224

Note:

- Return -1 if the array is empty (or None in the case of python).
- Indexing starts from 0.

Example:

Input:

arr: -3 4 3 6 4 5 -2

Output:

15

Explanation:

Index product:

- Index product of index 0 = $0 \times 1 = 0$
- Index product of index 1 = $0 \times 3 = 0$
- Index product of index 2 = $1 \times 3 = 3$
- Index product of index 3 = $0 \times 0 = 0$
- Index product of index 4 = $3 \times 5 = 15$
- Index product of index 5 = $3 \times 0 = 0$
- Index product of index 6 = $5 \times 0 = 0$

The maximum index product is 15. Thus, the output is 15.

Sample Input

arr: 1 5 4 3 5 2

Sample Output

8

```
1 int MaxIndexProduct(int arr[], int n)
2 {
3     int result;
4
5     if (n == 0) {
6         cout << "Empty, result from C++";
7         return 0;
8     }
9
10    result = arr[0] * arr[1];
11
12    for (int i = 2; i < n; i++) {
13        if (arr[i] > arr[i - 1]) {
14            result = arr[i] * arr[i - 1];
15        }
16    }
17
18    cout << "Max index product is " << result;
19}
```

7 Write your code below

```
10 int MaxIndexProduct(int arr[], int n)
11 {
12     /* write your code here */
13 }
```

Save & Test

Result

```
user@code:~/language C++
language changed to C++
user@code:~$
```

1 Number of unique characters

Hide problem statement <>

Problem statement

You are required to implement the following function:
`int NumberUniqueCharacter(char* str);`

The function accepts a string 'str' as its argument. You are required to calculate the number of unique characters in string 'str' and return the same.

Note:

- If 'str' = NULL, return -1

Assumptions:

- length of 'str' ≤ 100000 characters
- 'str' contains only lower case alphabets

Example:

Input:

str: abcdabc

Output:

4

Explanation:

The string 'str' is "abcdabc", and unique characters in string 'str' are {'a', 'b', 'c', 'd'}, count of them is 4, hence 4 is returned.

Sample Input

str: efeefhjg

Sample Output

5

Instructions :

- This is a template based question, DO NOT write the "main" function.
- Your code is judged by an automated system, do not write any additional welcome/greeting messages.
- "Save and Test" only checks for basic test cases, more rigorous cases will be used to judge your code while scoring.
- Additional score will be given for writing optimized code both in terms of memory and execution time.

Now let's start coding :

Code editor interface showing tabs for C, C++, Java, C#, and Python. The C tab is selected.

> Read-only code below . . .

```
1 int NumberUniqueCharacter(char* str);
2
3 int main() {
4     //Input read from STDIN
5     int p = NumberUniqueCharacter(str);
6     //Value in p is printed to STDOUT
7     return 0;
8 }
```

> Write your code below . . .

```
10 int NumberUniqueCharacter(char* str) {
11     /* Write your code here. */
12 }
13
14
15
```

Sections

1

2

1 Next Letter

You haven't attempted this question. Attempt?

2 Superior array element

[Hide problem statement](#)

Problem statement

In an array a superior element is one which is greater than all elements to its right. The rightmost element will always be considered as a superior element.

You are given a function,

```
int FindNumberOfSuperiorElements(int* arr, int n);
```

The function accepts an integer array 'arr' and its length 'n'. Implement the function to find and return the number of superior elements in array 'arr'.

Assumptions:

1. $n > 0$.
2. Array index starts from 0.

Example:

Input:

```
arr: 7 9 5 2 8 7
```

Output:

```
3
```

Explanation:

9 is greater than all the elements to its right, 8 is greater than element to its right and 7 is the rightmost element. Hence total 3 superior elements.

Sample Input

```
arr: 1 2 3 4 0 7 8 2
```

Instructions :

- This is a template based question, DO NOT write the "main" function.
- Your code is judged by an automated system, do not write welcome/greeting messages.
- "Save and Test" only checks for basic test cases, more rigorous cases judge your code while scoring.
- Additional score will be given for writing optimized code both in terms of execution time.

Now let's start coding :



C

C++

Java

C#

> Read-only code below . . .

```
1 int FindNumberOfSuperiorElements(int* arr, int n);
2 int main()
3 {
4     //Input read from STDIN
5     int result = FindNumberOfSuperiorElements(arr, n);
6     //Value in result printed to STDOUT
7     return 0;
8 }
```

> Write your code below . . .

```
10 int FindNumberOfSuperiorElements(int* arr, int n)
11 {
12     /* Write your code here. */
13 }
```

DELL



Section 2 of 6 Analytical R

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Question # 2

In this series, you will be looking at a letter pattern. Which of the given options should fill in the blank ?
AWK,BVL,DTM,_____,JKMO

Q. Details

Choose the best option

- POG
- CON
- HSL
- MON

Clear Response



Question # 1 Revisit

Choose the correct option.

If the word "Amazing" is in cell A1, then what does the function =mid(A1, 3, 4) display?

Choose the best option

- azin
- zin
- Ama
- Amaz

Question # 2

Revisit

You want to calculate the sum of 2 different ranges - A1:A5 and D1:D5. Considering that the cells B1:B5 contain values, which of the following options will you use for this purpose?

Choose the best option

- =SUM(A1:A5)+(D1:D5)
- =SUM(A1:A5)+SUM(D1:D5)
- =TOTAL(A1:D5)
- None of the given options

You are using an unsupported command-line tool. No windowbox stability and security will suffer.

Charita Rajesh Ready

accenture

Campus Hiring - Cognitive and Technical Test

Total 00:31:36 Finish Test

Section 5 of 6 Pseudo Cod 1 2 3 4 5 6 7 8 9 10 11 12 13 < 2 of 18 > All 1 17

Question # 2 Revisit

Your requirement is to find out the grades and specific amount of fees that need to be paid according to the grade they earned. It can be called anywhere multiple times. How will you do?

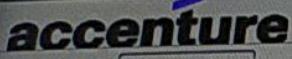
Choose the best option

1 Implemented below set of pseudocode in main program itself
3 Start
4 main()
5 Let marks = 94;
6 if marks >= 90 then
7 grade = 'A';
8 fees = 10000;
9 else if marks >= 80 and marks <90 then
10
11 else if
12 Stop
13 One needs to write this set of code wherever required

1 Implemented below set of pseudocode in a routine(function).
3 Start
4 def calculateGradeAndFees(int marks)
5 if marks >= 90 then
6 grade = 'A';
7 fees = 10000;
8 //similarly many def statements for other
9 //set of conditions
10 call calculateGradeAndFees(94);

Secure Exam Browser 1.3.7 17N81A0491 | Support +91 63669 37447 +91 8047190902

Prev Question Next Question 11:01 AM ENG



Section 4 of 6 Common Ap ▾

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1 2 3 4 5 6 7 8 9 10 11 12 < 3 of 12

Question #3

Revisit

Which of the following functions returns the largest value in a given range of cells?

Choose the best option

- MIN
- MAX
- SUM
- COUNT

Question #4

Revisit

In an MS Excel sheet, cell A1 contains the data "26 Jan 2017", and cell B1 contains the data "4 Feb 2017". Which of the following functions will you use to extract the number of days between the two dates?

Choose the best option

- DAY360(A1,B1)
- DAYS(A1,B1)
- DAYS360(A1,B1)
- DATE(A1,B1)

Question # 5 Revisit

Which tab provides you the means to select different chart elements, adds styles to the chart shape including 3-D edges, shadows, bevel and more in MS Excel?

Choose the best option

- Design
- Layout
- Format
- None of the given options

Question # 11

Revisit

Which of the following elements can be embedded in a slide show in MS-PowerPoint?

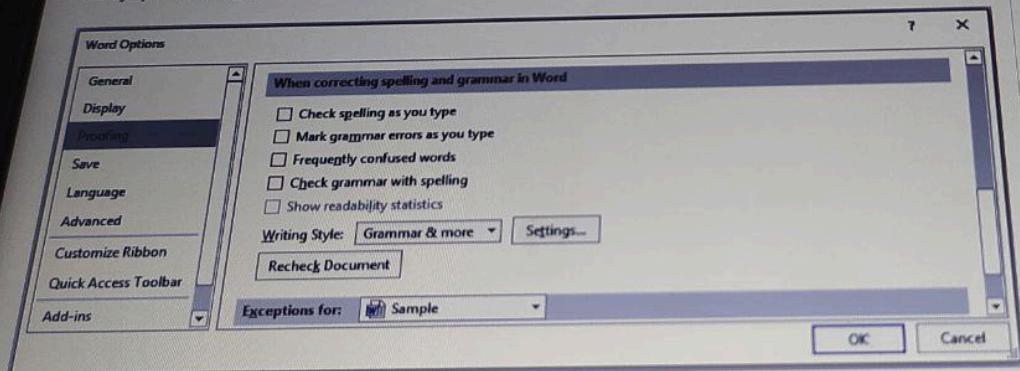
Choose the best option

- Movie
- Sound
- Video
- All of the given options

Question # 10

Revisit

The following image shows some 'Proofing' options in MS-Word. Which option will you clear/deselect to turn-off on-the-fly spell checking?



Choose the best option

- Check spelling as you type
- Mark grammar errors as you type
- Frequently confused words
- Check grammar with spelling

Question #5

Revisit

In MS Word, a user navigates to SmartArt icon in "Illustrator". What does the SmartArt feature basically include?

Choose the best option

- SmartArt includes online pictures, online clipart, list diagrams and process diagrams.
- SmartArt includes process diagrams, hierarchy diagrams, list diagrams and pyramid diagrams.
- SmartArt includes process diagrams, pyramid diagrams, hierarchy diagrams and radar diagrams.
- SmartArt includes radar diagrams, process diagrams, hierarchy diagrams and pyramid diagrams.

Question # 8

 Revisit

How can you include an image file with your digital signature using Outlook web app?

Choose the best option

- Draw an image in the file itself
- Copy image from another source and paste in the signature
- No image file can be included
- Use an image as an attachment in the email

Question #7

How many options are available in the Match Type parameter of the MATCH function in MS Excel?

Choose the best option

- Three: 0, 1 and -1
- Two: 0 and 1
- Two: 1 and -1
- None of the given options

Question # 5 Revisit

Which tab provides you the means to select different chart elements, adds styles to the chart shape including 3-D edges, shadows, bevel and more in MS Excel?

Choose the best option

- Design
- Layout
- Format
- None of the given options

Question #4

Revisit

In an MS Excel sheet, cell A1 contains the data "26 Jan 2017", and cell B1 contains the data "4 Feb 2017". Which of the following functions will you use to extract the number of days between the two dates?

Choose the best option

- DAY360(A1,B1)
- DAYS(A1,B1)
- DAYS360(A1,B1)
- DATE(A1,B1)

Question # 2

Revisit

You want to calculate the sum of 2 different ranges - A1:A5 and D1:D5. Considering that the cells B1:B5 contain values, which of the following options will you use for this purpose?

Choose the best option

- =SUM(A1:A5)+(D1:D5)
- =SUM(A1:A5)+SUM(D1:D5)
- =TOTAL(A1:D5)
- None of the given options

Question # 1 Revisit

Choose the correct option.

If the word "Amazing" is in cell A1, then what does the function =mid(A1, 3, 4) display?

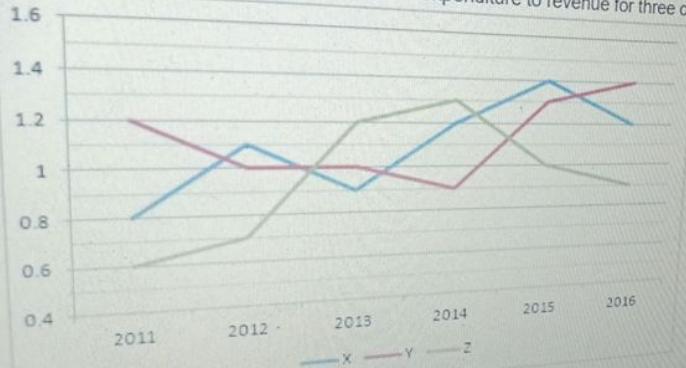
Choose the best option

- azin
- zin
- Ama
- Amaz

Question # 12

Directions : The questions given below are based on the graph. Read the graph carefully and answer the questions that follow.

The graph given below shows the ratio of expenditure to revenue for three companies, X, Y, and Z.



If the ratio of expenditure of companies X and Y in 2012 was 2:5 and revenue of X and Y increases by 10% and 20% each year respectively, then what was the ratio of revenue of company X and Y in 2015?

Revisit

Choose the best option

0.36

1.32

1.24

0.28

Solution # 13

Technical Test 01

1

2

3

4

5

6

7

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9

10

11

12

13

14

15

16

17

Revisit

Choose the best option

2

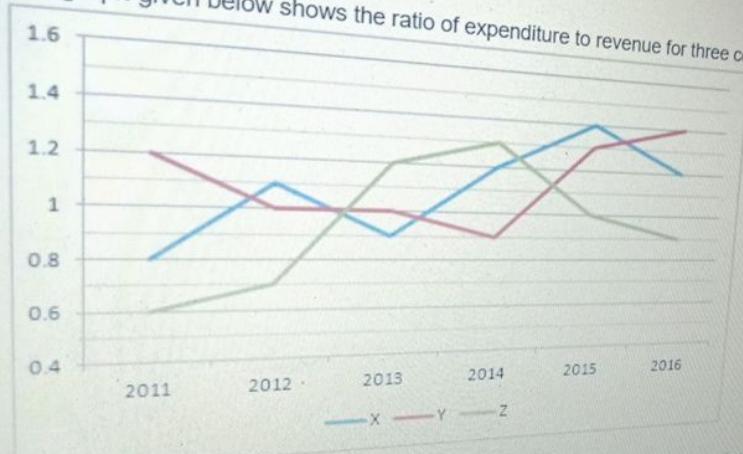
3

5

7

Directions : The questions given below are based on the graph. Read the graph carefully and answer the questions that follow.

The graph given below shows the ratio of expenditure to revenue for three companies, X, Y, and Z.



If tax of 10% has to be paid on the revenue by each company, then how many instances are there for any company to have made profits in any year? (Note: Profit = Revenue after tax – Expenditure).



Section 4 of 6

Common Ap ▾

Campus Hiring - Cognitive and Technical Test

1 2 3 4 5 6 7 8 9 10 11 12 1 of 12 9/14

Revisit

Choose the best option

- azin
- zin
- Ama
- Amaz

Question # 1

Choose the correct option.
If the word "Amazing" is in cell A1, then what does the function =mid(A1, 3, 4) display?

Question # 2

You want to calculate the sum of 2 different ranges - A1:A5 and D1:D5. Considering that the cells B1:B5 contain values, which of the following options will you use for this purpose?

Campus Hiring - Cognitive and Technical Test

1 2 3 4 5 6 7 8 9 10 11 12 2 of 12 Total 00:31:56 Finish Test

Revisit Choose the best option

=SUM(A1:A5)+(D1:D5)

=SUM(A1:A5)+SUM(D1:D5)

=TOTAL(A1:D5)

None of the given options

118 Support +91 63669 37447 +91 9047190972

Question # 4

The following image shows some data entered in an MS-Excel sheet. What formula will you use to arrive at the desired output value of '10' in cell D1?

	A	B	C	D
1	Count number of periods when Actual is greater than Target and Actual is not 0.			10
2	Period	Target	Actual	
3	Jan	30	35	
4	Feb	40	45	
5	Mar	50	55	
6	Apr	60	55	
7	May	0	5	
8	Jun	10	15	
9	Jul	30	30	
10	Aug	40	0	
11	Sep	50	55	
12	Oct	60	65	
13	Nov	70	75	
14	Dec	80	90	
15				
16				

FMS Hiring - Cognitive and Technical Test

Revisit

Choose the best option

- =COUNTIFS(C4:C15,C4:C15>=B4:B15,C4:C15,C4:C15<0)
- =SUMIFS(C4:C15,B4:B15,C4:C15>=B4:B15,C4:C15,C4:C15<0)
- =SUM((C4:C15>=B4:B15)*(C4:C15<0))
- [=SUM((C4:C15>=B4:B15)/(C4:C15<0))]

Senture

Section 4 of 6 Common Ap ▾

Campus Hiring - Cognitive and Technical Test ⓘ

1 2 3 4 5 6 7 8 9 10 11 12 < 7 of 12 > Total 50/3242 Finish Test

Question # 7

You are using the following formulas for your excel table.

1. Use =VLOOKUP(value, data, column, FALSE)
2. Use =VLOOKUP(value, data, column, 0)

When would VLOOKUP not return an exact value?

Revisit

Choose the best option

- For 1
- For 2
- It will return exact value for both.
- Cannot be determined

Review

Centure

Section 1 of 1 Coding

Question # 1

How to attempt?

Question :

Arrangement

Given an array of size n , write a function to rearrange the numbers of the array in such a way that even and odd numbers are arranged alternatively in increasing order.

Input Specification:

input1: Array size i.e. n

input2: Array elements (separated by comma)

Output Specification:

Return the updated array

Example 1:

input1: 5

input2: {9,12,23,8,5}

Output: {5,8,9,12,23}

**Question #1****How to attempt?****Question :****Second Largest**

Given an array (containing at most 1000 positive integers), find the second largest integer.
If there exists no second largest integer, return -1.

Input Specification:

input1: length of the array

input2: an array of positive integers

Output Specification:

Return the second largest number or -1 accordingly.

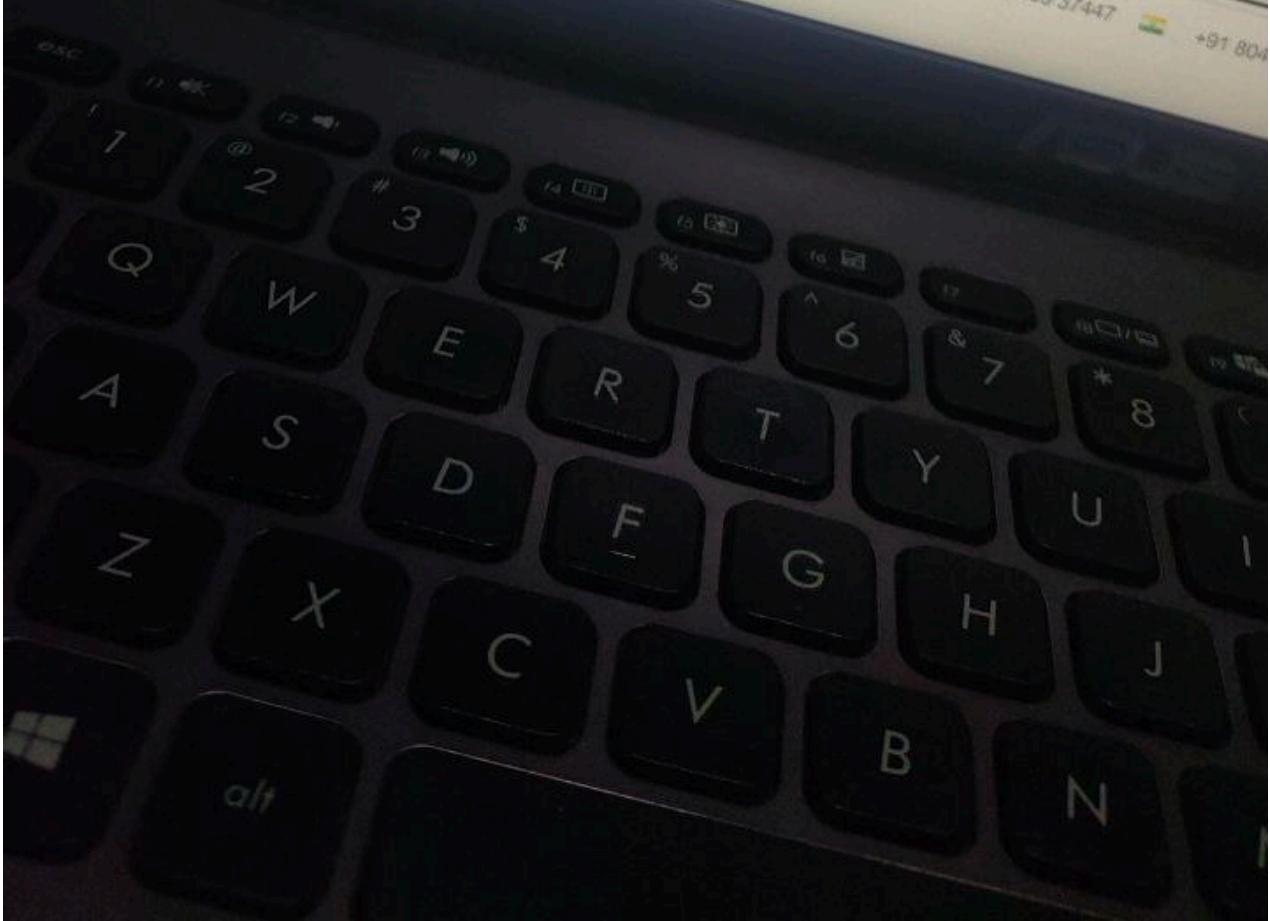
Example 1:

input1: 3

input2: {2,1,2}

Output: 1**Explanation:**

1 is the second largest in the array.



centure

Section 3 of 6 Numerical A

Question # 16

A leak in the bottom of a cistern can empty the full cistern in 8 hours. A tap is turned on which adds 6 liters a minute into the cistern, and it is now emptied in 12 hours. How many liters does the cistern hold?

- Review
Choose the best answer.
- 0.800
 - 0.867
 - 0.900
 - 0.950
 - 1.000

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Section 3 of 6

Numerical A

Question # 4

4 carpenters made 20 chairs in 5 days. How many chair will 8 carpenters make in 10 days?

Campus Hiring - Cognitive and Technical Test 0
1 2 3 4 5 6 7 8 9 10

Choose the best answer
0.40
0.32
0.38
0.28
0.20

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Section 3 of 6 Numerical A

Question # 5

A sum of \$8.25 is made up of 100 coins, which are either 10 cents or 5 cents. How many 10 cent coins are there?

Campus Hiring - Cognitive and Technical Test 0

1 2 3 4 5 6 7 8 9

Reset

Choose the answer

- 0.15
- 0.5
- 0.40
- 0.85

accenture

Section 3 of 6 Numerical A

Question # 8

A person sets out to cross a forest. On the first day, he completes $\frac{1}{10}$ th of the total distance. On the second day, which he travels $\frac{1}{10}$ th of the distance already travelled on the first day. He continues in this manner. On the second day, his journey. What is the total distance that he has to cover?

- Campus Hiring - Cognitive and Technical Test
- 1 2 3 4 5 6 7 8 9
- Reset
- Choose the best option

200 m

100 m

220 m

180 m

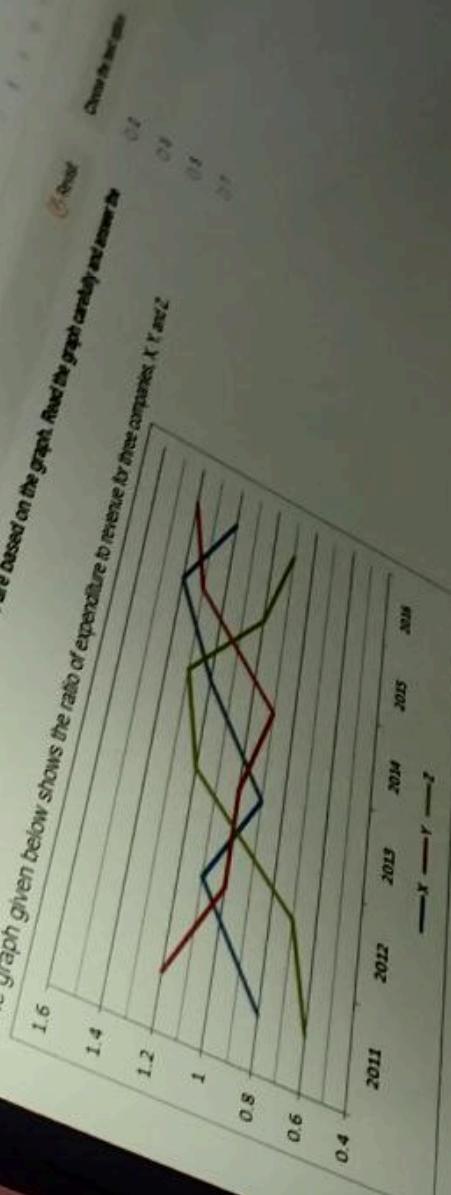
Future

3 of 6 Numerical A

Question # 13

Directions : The questions given below are based on the graph. Read the graph carefully and answer the questions that follow.

The graph given below shows the ratio of expenditure to revenue for three companies X, Y and Z.

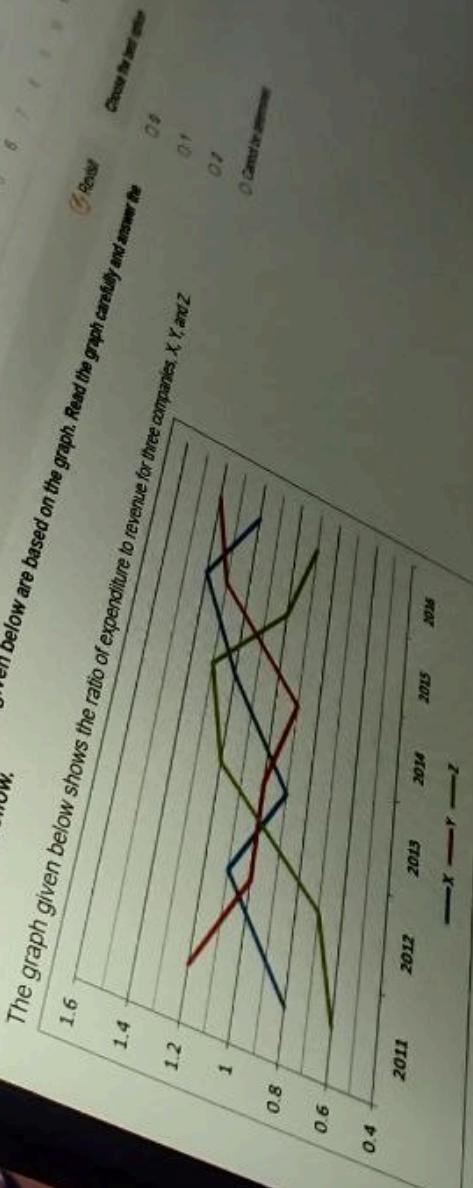


If tax of 10% has to be paid on the revenue by each company, then how many millions are the profits in 2016 for companies to have made profits in any year? (Note: Profit = Revenue after tax - Expenditure)

Section 3 of 6 Numerical A

Question # 11

Directions : The questions given below are based on the graph. Read the graph carefully and answer the questions that follow.



From 2012 to 2015, in how many years did company Z make a profit?

$$\text{Profit \%} = ((\text{Revenue} - \text{Expenditure}) / \text{Expenditure}) \times 100$$

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Section 3 of 6 Numerical A ▾

Question #7

What is the value of x , if $2x^2 + 9x = 18$?

Campus Hiring - Cognitive and Technical Test

1 2 3 4 5 6 7 8 9 10



Choose the best answer

- A 32.8 ft
- B 30.4 ft
- C 40.8 ft
- D None of the above

Question 3 of 6 Numerical A

Question # 14

A number is increased by 10% and then reduced by 10%. After this operation, what will happen to the number?

A) Increase by 10%

B) Decrease by 10%

C) Increase by 1%

D) Decrease by 1%

Campus Hiring - Cognitive and Technical Test 0

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Review

Change the font size

Print

0/0/15/11/16/17/18/19/20

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Section 3 of 6 Numerical/A

Question # 3

A garments retailer gives a percentage discount on formal coats. The cost price to MRP ratio is 3.5 on formal coats. If selling price of a formal coat is ₹ 120, then what is the cost price of one formal coat?

Campus Hiring - Cognitive and Technical Test 0

1 2 3 4 5 6 7 8 9 0

Points

Choose the best option

0.45
0.50
0.55
0.60

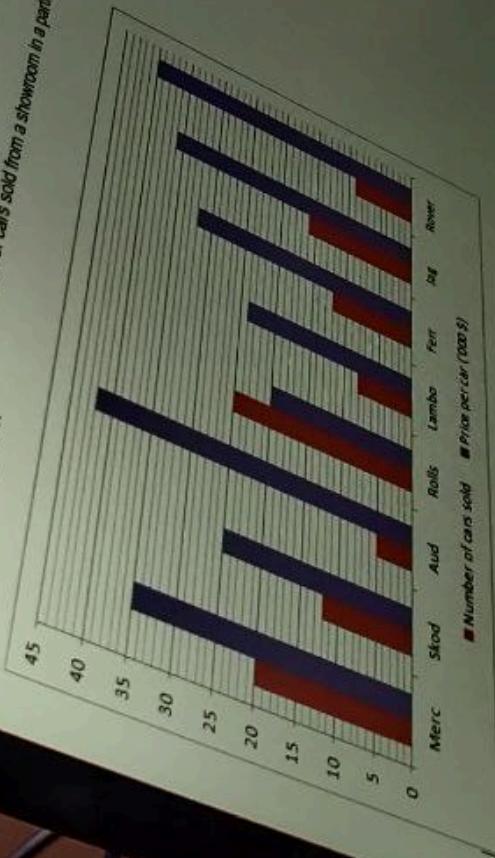
Scenture

Section 3 of 6 Numerical A

Question # 9

Directions: The question given below is based on the graph. Read the graph carefully and answer the question that follows.

The graph given below shows the number of cars sold from a showroom in a particular month and the price per car (in '000 \$) for those cars.



Question: Which car had the greatest contribution towards the revenue of the showroom?

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Section 3 of 6 Numerical A

Question # 1

The average weight of 40 passengers in a bus is 50kg while the average weight of the other and conductor is 51kg. What is the average weight of the other passengers along with the driver and conductor?

Campus Hiring - Cognitive and Technical Test 0
1 2 3 4 5 6 7 8 9 10

- Answer
 Clear the test options

0.81kg

0.72kg

0.78kg

0.75kg

Acccenture

Section 3 of 6 Numerical A

Question # 15

A shopkeeper had purchased 400 products for \$6500. He sold them to a scrap dealer for \$40 each. The goods are not sold due to quality issues. He sold them

Campus Hiring - Cognitive and Technical Test/Q



Replay

Choose the best answer

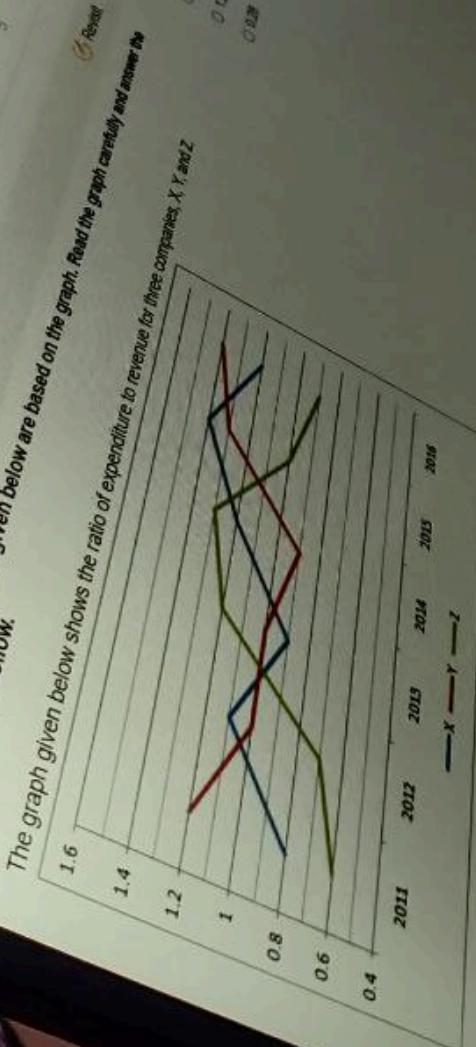
- 0.25% loss
- 0.25% profit
- 0.50% loss
- 0.50% profit

Section 3 of 6

Numerical Ability

Question # 12

Directions : The questions given below are based on the graph. Read the graph carefully and answer the questions that follow.



If the ratio of expenditure of companies X and Y in 2012 was 2.5 and revenue of X and Y remained the same as 20% each year respectively, then what was the ratio of revenue of company X and Y in 2015?

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Section 3 of 6 Numerical A

Question #2

I received two salary hikes during the last financial year. The first time, my salary was hiked by 4%. Assuming that I will have two increments of 3% and 4% successively. What will be the effective increment in my salary during the current financial year?

- C Reset
- Choose the best option
- 0.224%
 - 0.7%
 - 0.12%
 - 0.4%

Campus Hiring - Cognitive and Technical Test 0

1 2 3 4 5 6 7 8 9 0 .

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Section 3 of 6 Numerical A

Question # 6

If \$116 is divided among 150 children such that each girl and each boy gets 50 cents and \$1 respectively, then how many boys are there?

Campus Hiring - Cognitive and Technical Test 0
1 2 3 4 5 6 7 8 9

- Submit Answer
- Reset
- 0 2
 - 0 4
 - 0 6
 - 0 8

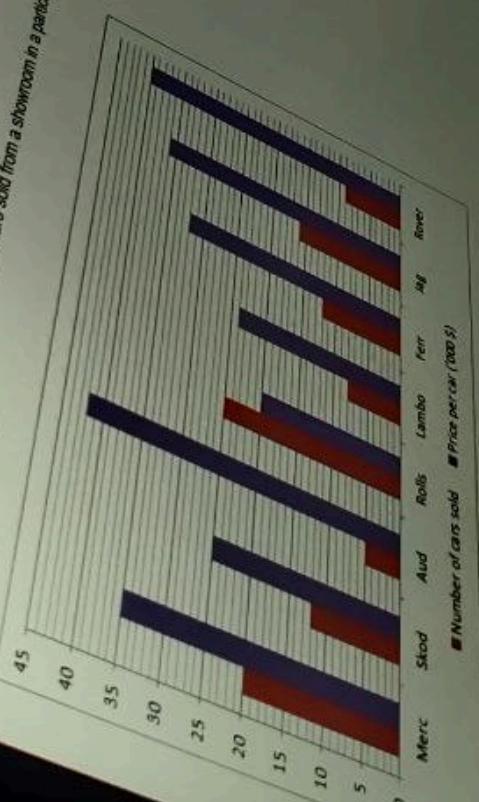
Venture

Section 3 of 6 Numerical A

Question # 10

Directions: The question given below is based on the graph. Read the graph carefully and answer the question that follows.

The graph given below shows the number of cars sold from a showroom in a particular month and the price per car (in '000 \$) for those cars.



Question: What was the average revenue ('000 \$) generated per car (approximately)?

Campus Hiring - Cognitive and Technical Test 10
1 2 3 4 5 6 7 8 9 10

- Retake Choose the best option
0.311
0.323
0.336
0.421

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Section 3 of 6 Numerical A

Campus Hiring - Cognitive and Technical Test 0

1 2 3 4 5 6 7 8 9 10 11 12

Question # 4

If 30 men complete $\frac{1}{7}$ the work in 2 days. How many more men should join in now, if the work has to be completed in 10 more days?

Revisit

Choose the best option

0.2

0.4

0.5

0.6

0.7

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1080

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PREDATOR



Revisit

Choose the best option

- Rs. 2,00,00,000
- Rs. 2,75,00,000
- Rs. 20,00,000
- Rs. 20,00,00,000

Question # 2

The price of sugar increases by 3%, as a result of which there is a fall in sugar consumption of 2.5%. However, the income from sugar goes up by Rs. 85,000 for the year. What was the original income from this sector prior to the increase?

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HD

1080



PREDATOR



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Section 3 of 6 Numerical A ▾

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Question # 1

Revisit

Choose the best option

The average weight of six persons is increased by 2.5 kg when one of them, whose weight is 50 kg, is replaced by a new man. What is the weight of the new man?

65 kg

75 kg

76 kg

60 kg

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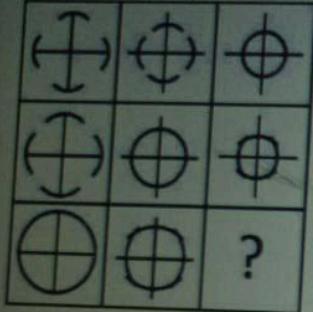
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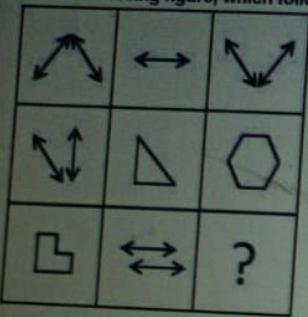


Find the missing figure, which follows the same pattern/rule and mark it as the answer.

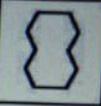
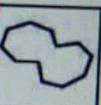
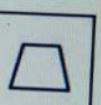
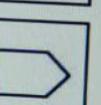
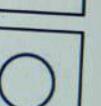
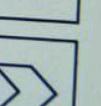


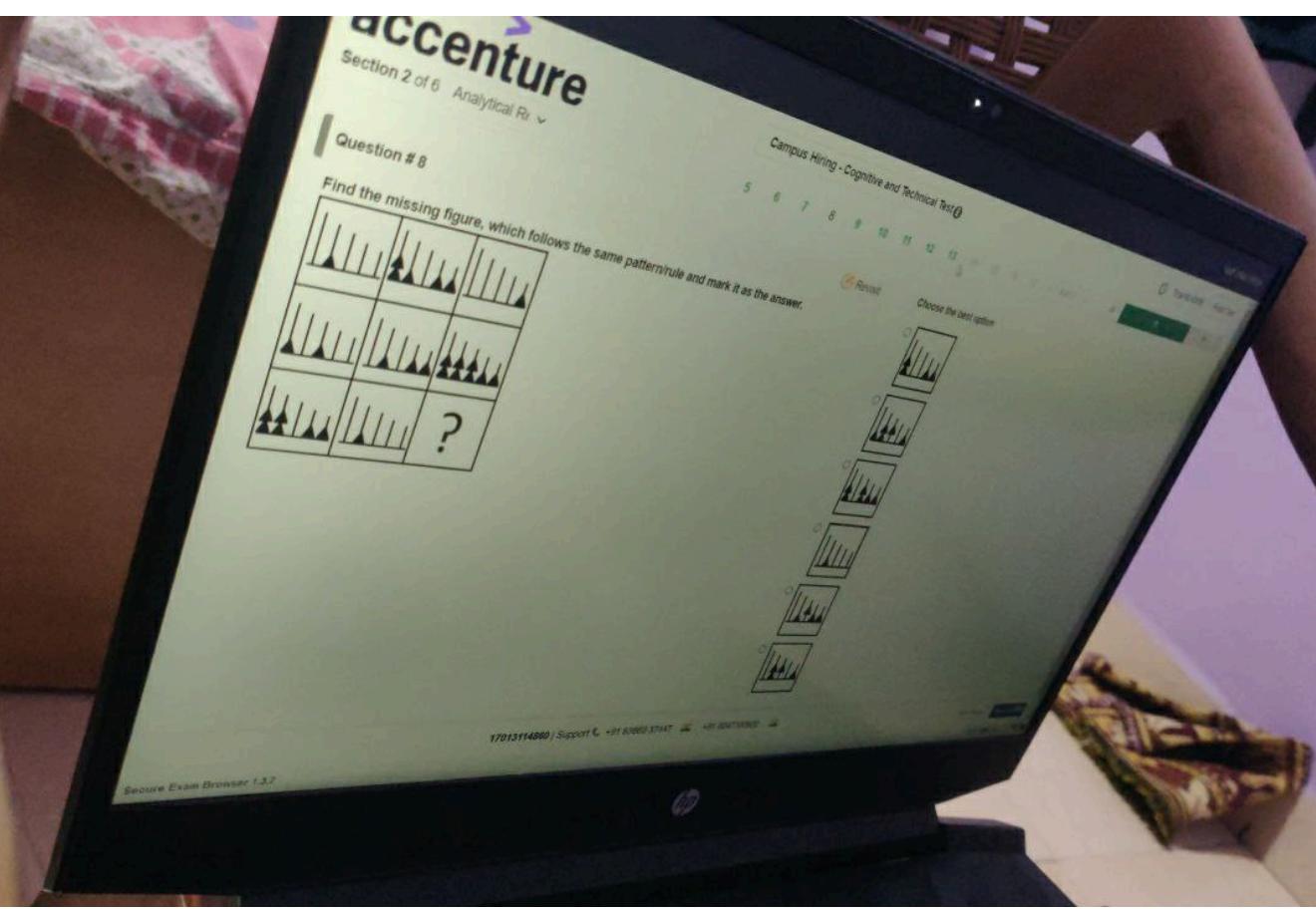
-
-
-
-
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-

Find the missing figure, which follows the same pattern/rule and mark it as the answer.



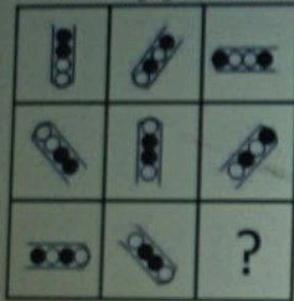
Choose the Best Option

- 
- 
- 
- 
- 
- 



Question # 8 Revisit

Find the missing figure, which follows the same pattern/rule and mark it as the answer.

**Choose the best option**

- 
- 
- 
- 
- 
- 



Section 2 of 6 Analytical Reasoning

Question # 13

Paul is twenty first from the left end and Sam is fifteenth from the right end. Peter is thirty-first from the left end of the row. John is sixth to the left of Peter. How many people are there in the queue if Sam is adjacent to John and third to the right of Paul?

Campus Hiring - Cognitive and Technical Test 0

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

- Revise
Choose the best option
0.42
0.40
0.39
0.38

Question # 13 Revisit

In a row of 50 girls, Amy was made to sit 20 places to the right of Rose and Peter sat 20 places to the left of Emma. If Emma was thirty-sixth from the left and there were four people between Peter and Amy, what was the position of Rose in the row?

Choose the best option

- 20th from the right end
- 25th from the left end
- 49th from the right end
- 1st from the left end

Output Specification:

Return the evaluated value of infix expression.

Example 1:

input1: $8+(7-9)^2$

Output: 4

Explanation:

$$\Rightarrow 8+(7-9)^2$$

$$\Rightarrow 8+(-2)^2$$

$$\Rightarrow 8-4$$

$$\Rightarrow 4$$

Example 2:

input1: $10+2^6$

Output: 22

Explanation:

$$\Rightarrow 10+2^6$$

$$\Rightarrow 10+64$$

$$\Rightarrow 22$$

Question # 2

 Revisit

Language

How to attempt?

Question:

Longest Common Subsequence

Given two strings, 'x' and 'y' ($1 \leq \text{length}(x), \text{length}(y) \leq 1000$), find the length of their Longest Common Subsequence (LCS). The strings contains only lowercase letters.

Write a program that takes in two string inputs and returns the length of their LCS.

Input Specification:

input1: input string 'x'
input2: input string 'y'

Output Specification:

Return the length of the LCS of 'x' and 'y'.

Example 1:

input1: aba

Output Specification:

Return an array in reverse order.

Example 1

input1: {1,2,3}

input2: 3

Output: {3,2,1}

Explanation:

The reverse of array {1,2,3} would be {3,2,1}.

Example 2

input1: {2,5,6,0,1}

input2: 5

Output: {1,0,6,5,2}

Explanation:

The reverse of array {2,5,6,0,1} would be {1,0,6,5,2}

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Section 1 of 1 Coding ▾

Campus Hiring - Coding Test

Example 1:

input1: aba

input2: ababa

Output: 3

Explanation:

Length of Longest common subsequence is 3 that is "aba"

Example 2:

input1: agtab

input2: gxtxayb

Output: 4

Explanation:

Length of Longest common subsequence is 4 that is "gtab"

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Section 1 of 1

Coding ▾

Question # 1

How to attempt?

Question:

Reverse an Array

Reverse an Array
Write a function that returns the reverse of the input array.

Input Specification:

put Specification:
input1: an array of numbers
input2: length of the array (input1)

Output Specification:

Example 1

input1: {1,2,3}
input2: 3

11

Output: 10.2.11

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Question # 1 Revisit

What is the algorithm in the following pseudo code used for?

```
1 DECLARE CHARACTER c
2 DECLARE INTEGER num = 0
3 DO
4 READ c
5 IF c IS '0' THROUGH '9' THEN
6 num++
7 END IF
8 UNTIL c IS '\n'
9 PRINT num
10 END
```

Choose the best option

- Word count
- Character count
- To find new line character
- Counting digits

Program prints the multiplication tables from 1 to 10. The multiplication tables are to be printed using a function.
Which of the following pseudocodes will implement this functionality?

```
1 FUNCTION Multable
2 FOR Num=1 TO 10 STEP 1 DO
3 Print 'Multiplication Table for ',Num
4 FOR I=1 TO 12 STEP 1 DO
5 Print Num,'*',I,'=',(Num*I)
6 END FOR
7 END FOR
8 END FUNCTION
9
10 PROGRAM START
11 Print 'This program prints multiplication tables from 1 to 10'
12 CALL Multable
13 STOP
```

```
1 FUNCTION Multable
2 FOR Num=1 TO 10 STEP 1 DO
3 Print 'Multiplication Table for ',Num
4 FOR I=1 TO 12 DO
5 Print Num,'*',I,'=',(Num*I)
6 END FOR
7 END FOR
8 END FUNCTION
9
10 PROGRAM START
11 Print 'This program prints multiplication tables from 1 to 10'
12 COMPUTE Multable
13 STOP
```

Clear Response

and Pseudocodes will implement this functionality?

```
1 FUNCTION MultTable
2 FOR Num1 TO 10.00
3 PRINT "Multiplication Table for ",Num1
4 FOR I=1 TO 12.00
5 PRINT Num1,"*",I,"=",Num1*I
6 END FOR
7 END FOR
8 END FUNCTION
9
10 PROGRAM START
11 PRINT "This program prints multiplication tables from 1 to 10"
12 CALL MultTable
13 STOP
```

```
1 FUNCTION MultTable
2 FOR Num1 TO 10.00 STEP 1.00
3 PRINT "Multiplication Table for ",Num1
4 FOR I=1 TO 12.00
5 PRINT Num1,"*",I,"=",Num1*I
6 END FOR
7 END FOR
8 END FUNCTION
9
10 PROGRAM START
11 PRINT "This program prints multiplication tables from 1 to 10"
12 CALL MultTable
13 STOP
```



Section 3 of 6 Numerical A

Campus Hiring - Cognitive and Technical Test

1 2 3 4 5 6 7 8 9 10 11 < 2 of 16 >

Question # 2

Revisit

Maximum Profit Pvt. Ltd. allowed an 18% commission on the total sales to a salesman and a bonus of 2% on the sales over Rs. 40,000. If the salesman deposited Rs. 1,26,400 in the company after deducting his earnings. Find the total sales.

Choose the best option

- Rs. 1,75,000
- Rs. 1,57,500
- Rs. 1,25,600
- None of these

A person is holding a tablet device, which displays an online test interface. The screen shows the 'accenture' logo at the top left and the text 'Logical Reasoning - Cognitive And Behavioural Testing' at the top right. Below this, it says 'Section 3 of 6 Numerical A'. A navigation bar at the top has numbers 1 through 11, with number 3 highlighted in yellow. To the right of the navigation bar is a 'Revisit' button. The main content area contains a question labeled 'Question # 3' followed by a detailed problem statement. The problem states: 'A shopkeeper sells an article A for \$80 and makes a loss of 20%. He decides to compensate the loss and make an overall profit of 15%. What should be the selling price of another unit of article A in order to do so?' To the right of the question is a 'Choose the best option' section with four radio buttons:

- \$180
- \$140
- \$160
- \$150

The background of the tablet screen features a faint image of a person wearing a hard hat and safety glasses, possibly a construction worker.

Question # 3

Revisit

Section 3 of 6 Numerical A

1 2 3 4 5 6 7 8 9 10 11

Choose the best option

A shopkeeper sells an article A for \$80 and makes a loss of 20%. He decides to compensate the loss and make an overall profit of 15%. What should be the selling price of another unit of article A in order to do so?

- \$180
- \$140
- \$160
- \$150



Question # 4

Revisit

If 4 boys or 3 men can complete a work in 10 days how many days will it take for 4 men and 3 boys to finish the work?

Choose the best option

- 22/5 days
- 19/5 days
- 24/5 days
- 23/3 days



Section 6 of 6 Networking

Campus Hiring - Cognitive and Technical Test

Total 00:27:28 Print Test

1 2 3 4 5 6 7 8 9 10 7 of 10

All

1

>

Question #7

If a cloud customer changes SaaS vendors, then both SaaS vendors provide the same application (CRM, accounting, word processing, etc.). Documents and data created with one vendor's software should be importable by the second vendor's software. In some cases, the customer might need to use the two vendors interchangeably. Which of the following options is not the requirement in this use case related to a cloud?

Revisit

Choose the best option(s)

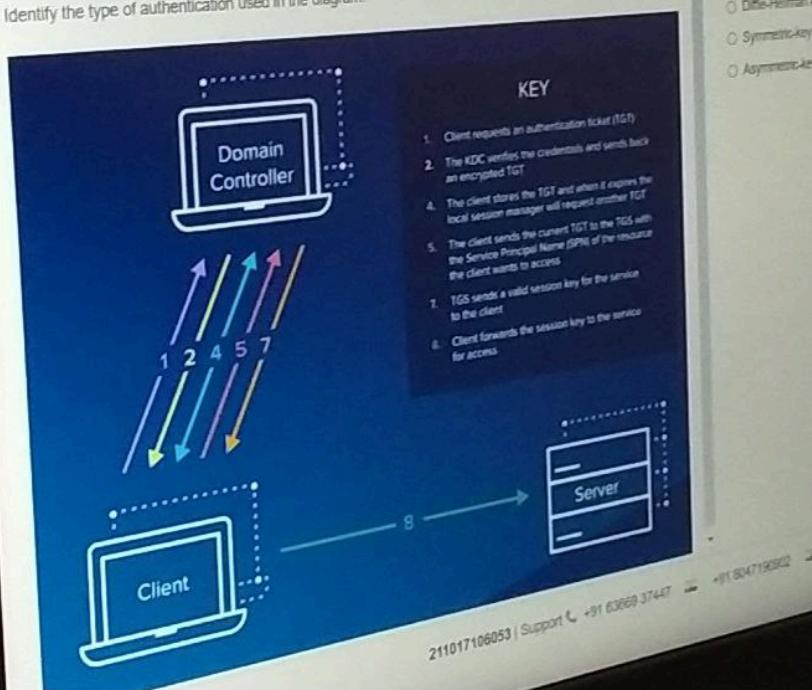
- Moving documents and data from one vendor's application to another requires both applications to support common formats. The formats involved will depend on the type of application.
- Standard APIs for different application types will also be required.
- Access to the cloud service should not require a particular platform or technology.
- In addition to the identity needed by an end user, an enterprise user is likely to have an identity within the enterprise. The idea is that the enterprise user manages a single ID, with an infrastructure leveraging other identities that might be required by cloud services.

Question # 6

[Revisit](#)

Choose the best option

- Kerberos Authentication
- Diffie-Hellman Authentication
- Symmetric-key Authentication
- Asymmetric-key Authentication



Question # 12

In a PowerPoint presentation, a user wants to create a table that has two columns S. No. and Company name as shown in the given image. Which of the following options is the initial step while creating the table?

S. No.	Company
1	ICBC
2	Alphabet
3	IBM
4	Google
5	Facebook
6	Apple
7	LinkedIn
8	Zoom
9	Microsoft
10	Amazon
11	Samsung

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Section 6 of 6 Networking: ▾

1 2 3 4 5 6 7 8 9 10 < 2 of 10 > All 2

Question # 2

 Revisit

Choose the best option

If weak keys are used in encryption by using DES, then the outcome of the permuted choice 1 (PC1) in the DES key schedule leads to round keys being either all zeros, all ones or alternating zero-one patterns. Which of the following hex representations is a weak key?

- 0x1F1F1F1F0E0E0E0E
- 0x1F1F1F1FE0E0E0E0
- 0xF1F1F1F10E0E0E0E
- 0xF1F1F1F1E0E0E0E0

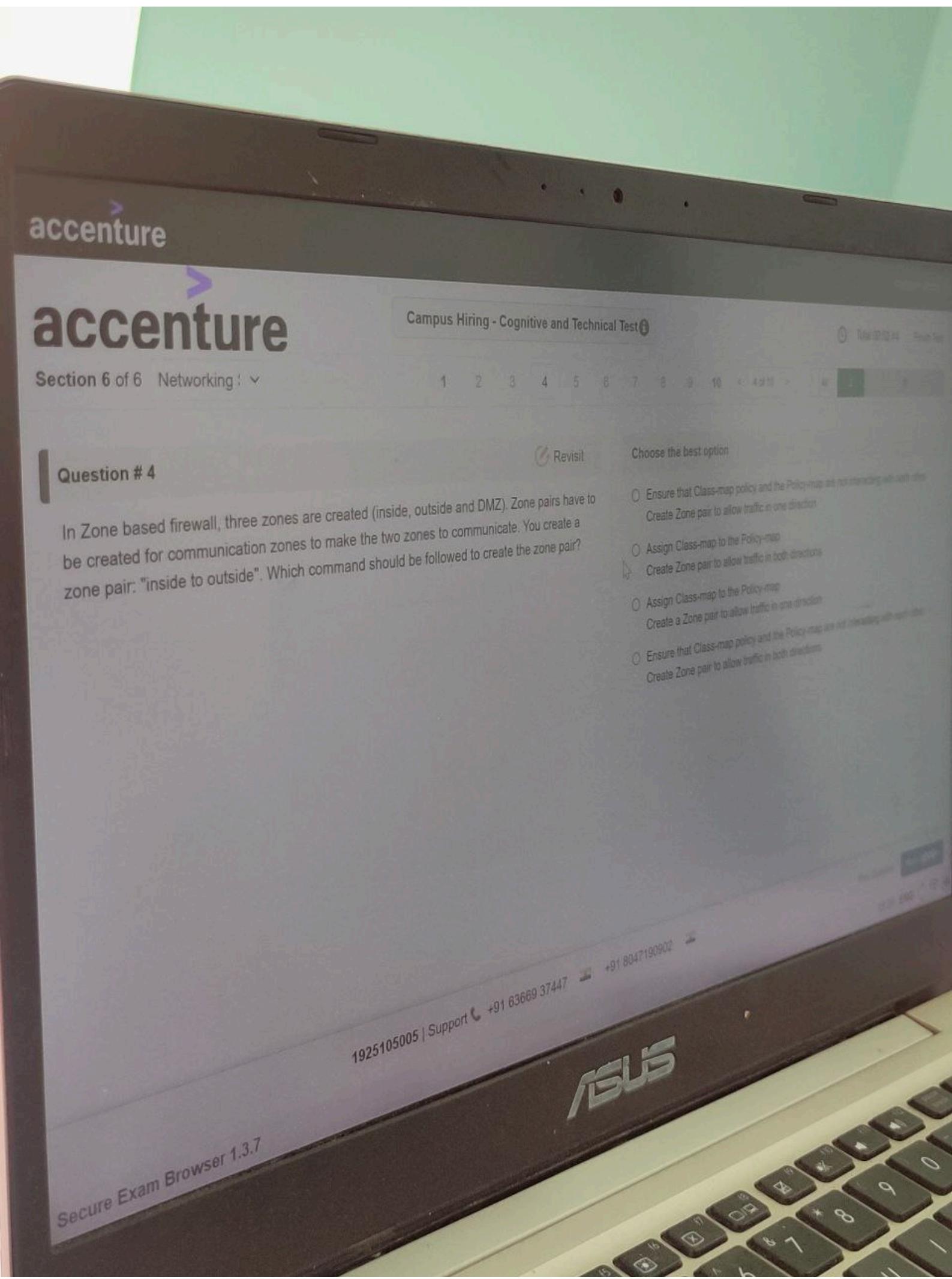


Question # 3

Assume that you have configured wireless access to the Internet using appropriate security.
Which two items should be configured on the wireless client?

Choose the best option

- RF Channel, BSS
- PSK, Manual SSID
- WEP and Passphrase
- SSID, IP address





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Section 6 of 6 Networking ! ▾

Campus Hiring - Cognitive and Technical Test

Total 05/32/47 Finish Test

1 2 3 4 5 6 7 8 9 10 < > 5/11

Question # 5

Revisit

Choose the best option

You are transitioning from an SSL based VPN to an IPsec based one for some reason. Which of the following options is a valid new feature/characteristic that was not there before?

- It works on layer 3 now
- Tunneling is done now
- It provides flexibility by providing a level of security
- It can be used regardless of a traffic type now

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Section 6 of 6 Networking

1 2 3 4 5 6 7 8 9 10 < > 100% 0%

Question # 6

Revisit

Identify the type of authentication used in the diagram.

Choose the best option

- Kerberos Authentication
- Diffie-Hellman Authentication
- Symmetric-key Authentication
- Asymmetric-key Authentication

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Section 6 of 6 Networking ! ▾

1 2 3 4 5 6 7 8 9 10 < 4 of 10 >

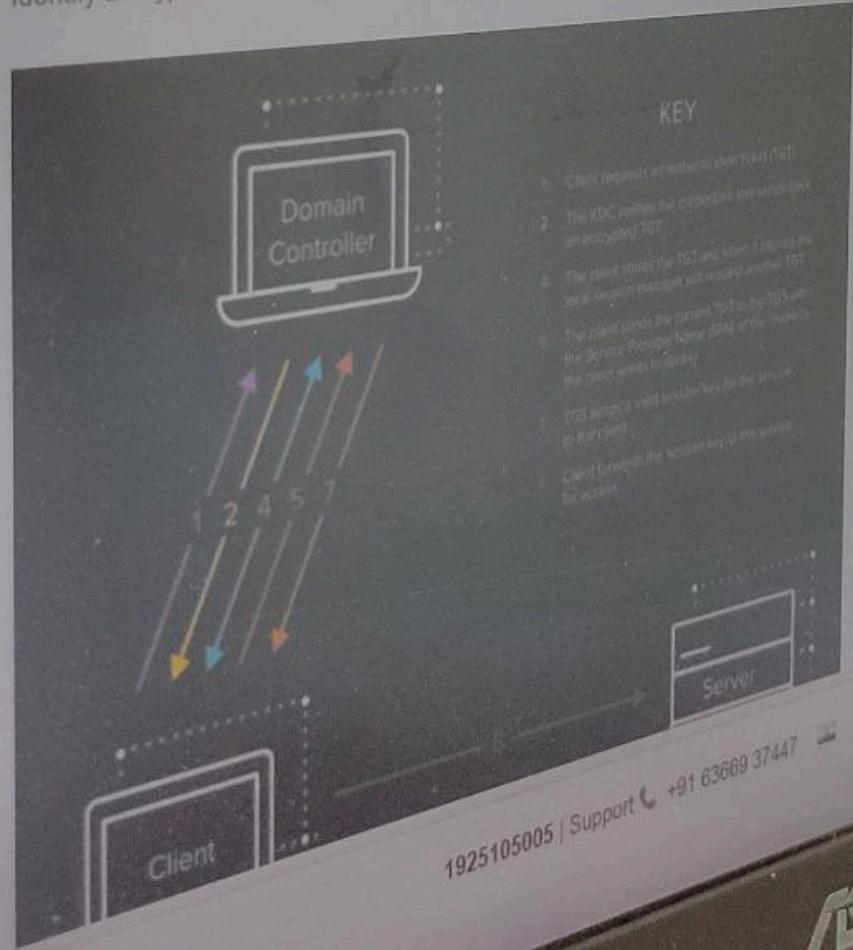
Question # 6

Revisit

Choose the best option:

- Kerberos Authentication
- Diffie-Hellman Authentication
- Symmetric-key Authentication
- Asymmetric-key Authentication

Identify the type of authentication used in the diagram.



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Section 6 of 6 Networking : ▾

1 2 3 4 5 6 7 8 9 10 < 302 / 302

Question # 9

Revisit

Choose the best option

Salesforce offers customers the capability of obtaining a customer relationship management (CRM) process from the cloud. The customer has access to all their customer data from any location. Like email, CRM is a clear and comprehensible process. So, which type of model can it be easily offered in?

SAAS

IaaS

PAAS

None of the given options

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Section 6 of 6 Networking : ▾

1 2 3 4 5 6 7 8 9 10 < 3 of 10 >

Question # 8

Revisit

Consider a scenario with the assumption that the virtual machines themselves are running an operating system such as Windows or Linux. This means that the user of the virtual machine has chosen a platform prior to building a VM for the cloud, so there are no cloud-specific requirements for the software running inside the VM.

Which of the following options perfectly describes the given scenario?

Choose the best option

- It is a use case where cloud customer changes cloud vendor.
- It is a use case where a cloud customer changes multiple vendors.
- It is a use case where a cloud customer wants to take virtual machines from one vendor's system and run them on another cloud vendor's system.
- It is a use case where a cloud customer changes cloud service provider.

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Section 6 of 6 Networking : ▾

1 2 3 4 5 6 7 8 9 10 < > 20/20

Revisit

Question # 7

A small construction company with approximately 20 administrative employees needs a way to manage their resources, optimize project scheduling, and track job costs. The company has very specific requirements of no commonly available system addresses, so they used a combination of quick books and spreadsheets. This system is not scalable and is a huge waste of human resources. What is the correct solution to this situation?

Choose the best option(s)

- The solution to the problem was to build a custom client-side application. Any business logic resides on the client. Data for the application is served from a Google App Engine (GAE) datastore.
- Data operations are communicated with the database using an application-level protocol over HTTP. The data store maintains TCP socket connections to the database by serving within silos managed on the server.
- If the application used an SQL database for processing requests, it would be better for the application to use a cloud database service, a VM with a database server deployed, or a VM running the database server.
- This application can be deployed to their VM that has an interface to the outside world with the VM housing the database server.

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Section 6 of 6 Networking

1 2 3 4 5 6 7 8 9 10

Question # 9

Salesforce offers customers the capability of obtaining a customer relationship management (CRM) process from the cloud. The customer has access to all their customer data from any location. Like email, CRM is a clear and comprehensible process. So, which type of model can it be easily offered in?

Revisit

Choose the best option

- SAAS
- IaaS
- PaaS
- None of the given options

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Section 6 of 6 Networking : ▾

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1 2 3 4 5 6 7 8 9 10

Question # 9

English Ability

Analytical Reasoning

Numerical Ability

Common Applications and MS office

Revisit

Choose the best option

SAAS

IaaS

PaaS

None of the given options

Salesforce of management
Networking Security and Cloud
customer data from any location. Like email, CRM is a clear and comprehensible process. So, which type of model can it be easily offered in?

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