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Medium

# Accenture Coding Questions and Answers

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## Introduction

Accenture has updated its selection process for the candidates for its 2023–2024 batch. Now, it has introduced new sections in the selection tests like Technical Assessment, Cognitive Assessment, and a coding section. The coding test is a compulsory section after you have cleared round one. Let's discuss Accenture Coding Questions and Answers 2023 below.

## Coding Section Highlights

Test	Coding
Total number of questions	2
Level of difficulty	High
Time duration	45 minutes
Section	Third

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Keep reading to find out the most common **Accenture coding questions** you should to ace this section.

Also Read About, [Interpolation in Angular](#)

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Recommended Topic, [Cognizant Eligibility Criteria](#)

## Resources to Prepare for Accenture Interviews

Before we jump into the top 30 Accenture coding questions. Coding Ninjas has launched the best [course for complete preparation of Accenture Interviews](#), TCS, IBM, Infosys, and other similar exams and companies.

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## Accenture Coding Questions

The coding section will have a total of two questions that you have to complete in 45 minutes. You can code in any of the languages you prefer:

- [C++](#)
- [C](#)
- [Java](#)
- [Python](#)

Note that the level of difficulty of these coding questions will be high. Hence, you must practice extensively to pass this test. Therefore, let the best faculty guide your preparation, and visit [Coding Ninjas](#). Brush up your programming and coding skills with their online courses on Python, C, [C++](#), or Java – try them out for free!

Solve the Accenture Coding Questions 2021 with Coding Ninjas' expert faculty to guarantee your top-notch performance.

## Marking Scheme of Accenture Coding Section


The **Accenture Coding Questions** section consists of two questions that candidates have to complete in 45 minutes. To pass this section, they have to achieve one partial output and one complete output.


Section	Number of Questions	Selection Criteria
Coding	2	1 Partial Output 1 Complete Output

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## Accenture Coding Questions

The following is a compilation of the type of **Accenture coding questions** that you'll encountering.

### 1. Execute the given function.

```
def differenceofSum(n,m)
```



The function takes two integrals  $m$  and  $n$  as arguments. You are required to obtain the total of all integers ranging between 1 to  $n$  (both inclusive) which are not divisible by  $m$ . You must also return the distinction between the sum of integers not divisible by  $m$  with the sum of integers divisible by  $m$ .

#### Assumption

- $m > 0$  and  $n > 0$
- Sum lies within the integral range

#### Example

Input:

$m = 6$

$n = 30$

Output:

285

- Integers divisible by 6 are 6, 12, 18, 24, and 30. Their sum is 90.
- Integers that are not divisible by 6 are 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 25, 26, 27, 28, and 29. Their sum is 375.
- The difference between them is 285 ( $375 - 90$ ).

Sample input:

$m = 3$

$n = 10$

Sample output:

19

## 2. Execute the given function.

def LargeSmallSum(arr)

The function takes an integral arr which is of the size or length of its arguments. Return the sum of the second smallest element at odd position 'arr' and the second largest element at the even position.

#### Assumption

- Every array element is unique.
- Array is 0 indexed.

#### Note:

- If the array is empty, return 0.
- If array length is 3 or  $<3$ , return 0.

#### Example

Input:

Arr: 3 2 1 7 5 4

Output:

7

#### Explanation

- The second largest element at the even position is 3.
- The second smallest element at the odd position is 4.
- The output is 7 ( $3 + 4$ ).

## 3. Write a function to validate if the provided two strings are anagrams or not. If the two strings are anagrams, then return 'yes'. Otherwise, return 'no'.

Input:

Input 1: 1st string



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Input 2: 2nd string

Output:

(If they are anagrams, the function will return 'yes'. Otherwise, it will return 'no'.)

Example

Input 1: Listen

Input 2: Silent

Output:

Yes

Explanation

Listen and Silent are anagrams (an anagram is a word formed by rearranging the letters of the other word).

Also Read About - [Difference between argument and parameter](#)

## Accenture Coding Questions in Python

### 4. Perform the following function.

```
def Productsmallpair(sum,arr)
```

This function accepts the integers sum and arr. It is used to find the arr(j) and arr(k), where  $k \neq j$ . arr(j) and arr(k) should be the smallest elements in the array.

Keep this in mind:

- If  $n < 2$  or empty, return -1.
- If these pairs are not found, then return to zero.
- Make sure all the values are within the integer range.

Example

Input:

Sum: 9

Arr: 5 4 2 3 9 1 7

Output:

2

Explanation

From the array of integers, we have to select the two smallest numbers, i.e 2 and 1. Sum of these two  $(2 + 1) = 3$ . This is less than 9  $(3 < 9)$ . The product of these two is 2  $(2 \times 1 = 2)$ . Hence the output is integer 2.

Sample input:

Sum: 4

Arr: 9 8 -7 3 9 3

Sample output:

-21

### 5. Perform the function for the given purpose.

For writing numbers, there is a system called N-base notation. This system uses on based symbols. It uses symbols that are listed as the first n symbols. Decimal and r notations are 0:0, 1:1, 2:2, ..., 10:A, 11:B, ..., 35:Z.

Perform the function: Chats DectoNBase(int : num)

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This function only uses positive integers. Use a positive integer  $n$  and  $num$  to find out the  $n$ -base that is equal to  $num$ .

### Steps

- Select a decimal number and divide it by  $n$ . Consider this as an integer division.
- Denote the remainder as  $n$ -based notation.
- Again divide the quotient by  $n$ .
- Repeat the above steps until you get a 0 remainder.
- The remainders from last to first are the  $n$ -base values.

Assumption

$$1 < n \leq 36$$

Example

Input:

N: 12

Num: 718

Output:

4BA

Explanation

num	Divisor	Quotient	Remainder
718	12	59	10(A)
59	2	4	11(B)
4	12	0	4(4)

Sample input:

N: 21

Num: 5678

Sample output:

CI8

## 6. Execute the function for the given purpose.

When the sum of the digits exceeds a total of 9, a carry digit is added to the right-left of the digit. Execute the function: `Int Numberofcarry(Integer num 1, Integer num 2)`

Assumption

$$num1, num2 \geq 0$$

Example

Input:

num1: 451

num2: 349

Output:

2

Explanation

When we add these two numbers from the right to the left, we get two carries. The each of the carries is 1. Hence, the output is the total of these two carries, i.e., 2.

Sample input:

num1: 23

num2: 563

Sample output:

0

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**7. The given function has a string (str) and two characters, ch1 and ch2. Execute the function in such a way that str returns to its original string, and all the events in ch1 are replaced by ch2, and vice versa.**

Replacecharacter(Char str1, Char ch1, Int 1, Char ch2)

#### Assumption

This string has only alphabets that are in lower case.

#### Example

Input:  
str: apples  
ch1: a  
ch2: p

Output:  
paales

Explanation  
All the 'a' in the string is replaced with 'p'. And all the 'p's are replaced with 'a'.

## Accenture Coding Questions In Java

**8. Perform the function: Int operationchoices(int c, int n, int a, int b). This function considers three positive inputs of a, b and c.**

Execute the function to get:

(a + b), if c = 1  
(a / b), if c = 4  
(a - b), if c = 2  
(a x b), if c = 3

#### Example:

Input:  
a: 12  
b: 16  
c: 1

Output:  
28

Explanation  
C = 1, hence the function is (a + b). Hence, the output is 28.

Sample input:  
a: 16  
b: 20  
c: 2

Sample output:  
-4

**9. Perform the function Int calculate(int m, int n). This function n two positive integers. Calculate the sum of numbers between the two numbers that are divisible by 3 and 5.**

Assumption  
 $m > n >= 0$

#### Example



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Input:  
m: 12  
n: 50

Output:  
90

Explanation

The numbers between 12 and 50 that are divisible by 3 and 5 are 15, 30, and 45. The sum of these numbers is 90.

Sample input:

m: 100  
n: 160

Sample output:  
405

## 10. Execute the function for the given purpose.

Create a matrix and mention the elements in it. Now, divide the main matrix into two halves in such a way that the elements in index 0 are even, the elements in index 1 are odd, and so on.

Then arrange the values in ascending order for even and odd. After this, calculate the sum of the second largest numbers from both even and odd matrices.

Example

The size of the array is 5.

Element at 0 index: 3

Element at 1 index: 4

Element at 2 index: 1

Element at 3 index: 7

Element at 4 index: 9

Even array: 1,3,9

Odd array: 4,7

## Accenture Coding Questions in C

### 11. The binary number system only uses two digits 1 and 0.

Perform the function: `Int OperationsBinarystring(char* str)`

Assumptions

- Return to -1 if str is null.
- The str is odd.

Example:

Input:  
Str: ICOCICIAOBI

Output:  
1

Explanation

The input when expanded is "1 XOR 0 XOR 1 XOR 1 XOR 1 AND 0 OR 1". The result becomes 1 and hence the output is 1.

### 12. Perform the function Checkpassword (char str[], int n)

Execute the function which happens to be 1 if the str is a valid password or it remains 0 otherwise.

Conditions for a valid password:

- The password should have at least 4 characters.

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- It should have at least 1 digit.
- It should have one capital letter.
- It should not have any spaces or obliques (/).
- The first character should not be a number.

Assumption

The input is not empty.

Example

Input:

aA1\_67

Output:

1

### 13. Execute this function Void MaxInArray(int arr[], int length)

This function helps in finding the maximum element in the array. Execute this function to print the maximum element in the array with its index.

Assumptions

- The index in the array for all the elements starts at 0.
- The maximum element is in a different line in the output.
- There has to be only one maximum element.
- The function prints only what is required.

Example

Input:

23 45 82 27 66 12 78 13 71 86

Output:

86

9

Explanation

The maximum element is 86 and the array is 9.

### 14. Change frequent character

The function to execute is

ChangeFrequentCharacter(Char str, char x)

This function has a string and a character. This function requires replacing the most used character in the str with the 'x' character.



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Input:

str: bbadbabbabb

char x: t

Output:

ttadttatatt

Explanation

The maximum character repeated is 'b' that is replaced with 't'.

Also read, [Software Testing](#)

### 15. Execute the function Def Autocount(n).

The function accepts the string n. It checks whether the number is an autobiographical number or not. If an integer returns, then it is an autobiographical number. If 0 returns, then it is not an autobiographical number.



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**Assumption**

- The input value should not be more than 10 characters.
- The input string will have numeric characters.

**Example**

Input:

N: "1210"

Output:

3

**Explanation**

The 0th position has the number 1, the 1st position has the number 2, the 2nd position has the number 1, and the 3rd position has number 0. Hence, it is an autobiographical number.

The count of autobiographical numbers in the input is 3, hence 3 is returned.

Click here to learn about, [Html interview questions](#)

**16. In a given list of integers, find the number that has the highest frequency. If there are one or more such numbers, give the smaller one as output.**

Input:

3

7

2 4 5 2 3 2 4

6

1 2 1 1 2 1

10

1 1 1 1 1 1 1 1 1 1

Output:

2

1

1

**17. Execute the function for the given purpose.**

Write a function mergeArrays which merges two sorted arrays to create one single sorted array. Complete the function int\* mergeArrays(int a[], int b[], int asize, int bsize) below which takes the pointers to the first element of the two sorted arrays and the size of the arrays, and returns the base address of the final sorted array.

Input:

4 // Size of 1st array

1 2 3 6 // Elements of 1st array

3 // Size of 2nd array

4 5 7 // Elements of 2nd array

Output:

1

2

3

4

5

6

7

**18. Create web access management to the kth largest number. I accept an integer k and an array arr as its conditions and has to return the greatest element based on the value of k. That is, if k = 0, return the greatest element. If k = 1, return the second greatest element, and so on.**

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**Example**

Suppose the array contains values like {74, 85, 102, 99, 101, 56, 84} and the integer k is 2. The method will return 99, the third greatest element, as there are only two (according to the value of k) values greater than 99 (101 and 102).

**19. We have mentioned a list of integers that have no duplicates. Find how many swaps it will take to sort the list in ascending order using Bubble sort.**

Input:

3  
5  
2 1 4 6 3  
10  
123 21 34 45 25 675 23 44 55 900  
1  
23

Output:

3  
16  
0

**20. Write a program to count the number of swaps required to sort a given list of integers in ascending order using the selection sort algorithm.**

Input:

2  
3  
4 2 5  
5  
10 11 8 7 1

Output:

1  
3

**21. Form an array of 1000 integers and find out the second-largest number. If there is no second largest number, return the value to -1.**

Example

Input 1:

3

Input 2:

{2,1,2}

Output:

1

Explanation

The integer 1 is the second largest in the array.

Example

Input 1:

5

Input 2:

{4,7,9,8,0}

Output:

8

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**22. Adam decides to do some charity work. From day 1 till day r will give  $i^2$  coins to charity. On day 'i' ( $1 \leq i \leq n$ ), find the number of coins he gives to charity.**



Example 1

Input:

2

Output:

5

Explanation:

There are 2 days.

Example 2

Input:

3

Output:

14

**23. Perform a function to reverse a string word-wise. The input here will be the string. In the output, the last word mentioned should come as the first word and vice versa.**

Example

Input:

Welcome to code

Output:

code to Welcome

Explanation

The Reversed string word wise function is applied.

Example

Input:

Code to Crack Puzzle

Output:

Puzzle Crack to Code

**24. Find the sum of the divisors for the N integer number.**

Example 1

Input:

6

Output:

12

Explanation

Divisors of 6 are 1, 2, 3, and 6. The sum of these numbers is 12.

Example 2

Input:

36

Output:

91

**25. Execute a function that accepts the integer array of length 's' and finds out the maximum number that can be formed by permutation.**

Note: You will have to rearrange the numbers to make the maximum number.

Example

Input:

34 79 58 64

Output:

98765443

Explanation

All digits of the array are 3, 4, 7, 9, 5, 8, 6, and 4. The maximum number found after rearranging all the digits is 98765443.

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**26. Find a string of a length of 1000 for a large number. Output is the modulo of 11. The output specification is to return the remainder modulo 11 of the input.**

Input:  
121  
Output:  
0

Explanation  
 $121 \bmod 11 = 0$

**27. Find out if the given set of points are on a straight line or not. If the points are on a straight line, then return the equation. If not, then return 0.**

Example  
Input:  
3  
1 1 2 2 3 3  
Output:  
 $1x - 1y = 0$

Explanation  
The three points here are [1,1], [2,2], and [3,3]. These lie on a line, so the function returned the equation.

**28. Write a function to find roots of a quadratic equation  $ax^2 + bx + c = 0$ .**

Note: The formula to find the roots of a quadratic equation is given below:



Example  
Input 1: 1  
Input 2: -2  
Input 3: 3  
Output:  
{3.0,-1.0}

Explanation:  
On substituting the values of a, b, and c in the formula, the roots will be as follows:  
 $+X = 3.0$   
 $-X = -1.0$

**29. Write a function to find if the given string is a palindrome or Return 1 if the input string is a palindrome, else return 0.**


Input:  
level  
Output:  
1


Explanation:  
The reverse of the string 'level' is 'level'. As they are the same, the string is a palind

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### 30. Write a function to check if the given two strings are anagrams or not. Return 'Yes' if they are anagrams, otherwise, return 'No'.

Example

Input 1: build

Input 2: dubli

Output:

Yes

**Explanation:**

build and dubli are anagrams. Feeling like taking on more? [Coding Ninjas Studio](#) from [Coding Ninjas](#) is an exclusive and new boot camp program that helps you advance your interview prep and have a higher chance of securing your dream job. With mock interviews, coding challenges, and practice interview questions, prepare for your dream career with us!

Also see, [TCS NQT](#)

## Frequently Asked Questions

### How hard is the Accenture coding test?

Accenture has recently introduced a few changes in its coding test. The difficulty of this section lies between medium to high.

### Do Accenture coding questions get repeated?

It has been noticed from the previous question papers that several questions are repeated in every paper. In C++, questions from mainly polymorphism, inheritance, virtual functions, and constructors are repeated. In C, they are mostly from the scope of variables, pointers, and structures.

### Is it compulsory to clear the coding round in Accenture?

Yes, it is compulsory to clear the coding round of Accenture.

### Is there a coding round in Accenture?

Yes, there is a coding test after clearing the first two rounds successfully. Go through the various Accenture coding questions in C, Python, and Java given above.

### Will Accenture hire in 2023?

Yes. Accenture is hiring in 2023. You can start preparing for Accenture Coding Questions 2023 from today.

### Is an Accenture interview difficult?

The difficulty of the Accenture Coding Questions 2023 is quite variable. It solely depends on the interviewee's preparation. Only that can determine how their answers are presented to the selection committee and what the outcome will be.

## Conclusion

Accenture is one of the top-notch coding companies in India. They have revealed their selection process to have three rounds. The first two rounds are Technical and Cognitive assessments. The third is a coding test. This is a compulsory section that must be cleared to get an offer letter.

The difficulty level can be considered to be high. They will have to solve 2–3 questions within 45 minutes. Each question will test their knowledge of their selected computer

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languages. One can select a language they are comfortable in to solve and write codes for the assigned problems.

The coding round in Accenture's selection process will test the applicant's interest and knowledge in coding languages. For applicants, this is a great way to bag coveted job opportunities simply with a well-rounded knowledge of coding. All the examples of [Accenture Coding Questions](#) are framed to test your clarity of concepts.

Also check out - [String Interview Questions In Java](#)

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## Comments



Nisha Rawat

28 Aug, 2022

2nd questions ( Execute the given function ) explanation is wrong Question is about second smallest but you guys have written (The second largest element from the even position is 3 ). sorry but now its hard to trust other questions I am out 😞

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Nisha Rawat

28 Aug, 2022

// Sample input: // m = 10 // n = 3 2nd sample input of 1st question is wrong. It should be m = 3 n = 10

Show 1 reply 1 upvote Reply



shruti tatuskar

26 Jun, 2023

13 question

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