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The screenshot shows the AMCAT website interface for the 'Automata Fix' module. The browser tabs include '24Online Client', 'Fwd: Automata Fix Demo', 'Inbox - seeetpc@lpu.co', 'SMS GupShup Enterprise', and 'Aspiring Minds'. The URL is 'https://amcat.aspiringminds.com'. The page header shows the user 'raghav gupta' with 'TEST ID: 130012353262323'. The module title 'Automata Fix' is displayed with a timer at '00:00:36'. A 'Module Description' section contains a table with the following data:

Module Name	Number of questions	Total Time
Automata Fix	7	20 Minutes

Below the table, it asks the user to select a preferred programming language: C (selected), C++, or Java. 'Code-Specific Instructions' are listed, including debugging, using the provided function signature, not modifying pre-implemented methods, including necessary libraries, and using macros. A 'Next' button is at the bottom.

1

The screenshot shows the 'Automata Fix' question page, 'Question 1 out of 7'. The timer is at '00:19:46'. The 'Problem' tab is active, showing instructions: 'You are required to complete the given code by reusing existing functions. You can click on Compile & Run anytime to check the compilation/execution status of the program. You can use printf to debug your code. The submitted code should be logically/syntactically correct and pass all testcases. Do not write the main() function as it is not required. Code Approach: For this question, you will need to complete the code as in given implementation. We do not expect you to modify the approach.' The problem description states: 'The function findMinElement(int *arr1, int len1, int *arr2, int len2) accepts two integer arrays arr1, arr2 of length len1, len2 respectively. It is supposed to return the smallest element in both the input arrays. Another function sortArray(int *arr, int len) sorts the input array arr of length len in ascending order and returns it. Your task is to use sortArray(int *arr, int len) function and complete the code in findMinElement(int *arr1, int len1, int *arr2, int len2), so that it passes all test cases.' The 'Test Cases' and 'Output' tabs are also visible. The code editor shows the following code:

```
1 // You can print the values to stdout for debugging
2 int* sortArray(int *arr, int len)
3 {
4     int i=0, j=0, temp=0, index=0;
5     for(i=0; i<len; i++)
6     {
7         for(j=i+1; j<len; j++)
8         {
9             if(arr[i]>arr[j])
10            {
11                temp = arr[i];
12                arr[i] = arr[j];
13                arr[j] = temp;
14            }
15        }
16    }
17    return arr;
18 }
19
20 int findMinElement(int *arr1, int len1, int *arr2, int len2)
21 {
22     // write your code here
23 }
24
```

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2

The screenshot shows the AMCAT Automata Fix question 2 interface. The user is logged in as raghav gupta with TEST ID: 130012353262323. The question is titled "Automata Fix" and is the 2nd out of 7 questions. The problem statement requires fixing logical errors in a C++ function `getArraySum` that calculates the sum of elements in an array. The code provided is as follows:

```
1 // You can print the values to stdout for debugging
2 int getArraySum(int *arr, int len){
3     int sum=0;
4     for(i=0;i<len;i++){
5         sum = arr[i];
6     }
7     return sum;
8 }
```

The task is to debug the program to pass all test cases. The assumption is that the sum of the elements of the array `arr` will not overflow the range of its data type.

3

The screenshot shows the AMCAT Automata Fix question 3 interface. The user is logged in as raghav gupta with TEST ID: 130012353262323. The question is titled "Automata Fix" and is the 3rd out of 7 questions. The problem statement requires fixing logical errors in a C++ function `checkGrade` that returns a student's grade based on their test score. The code provided is as follows:

```
1 // You can print the values to stdout for debugging
2 char checkGrade(int score){
3     if(score<60)
4         return 'D';
5     else
6         if((61<=score)|| (score<=75))
7             return 'C';
8     else
9         if((76<=score)|| (score<=90))
10            return 'B';
11     else
12         return 'A';
13 }
```

Given a particular score, a grade is calculated as per the following table:

Score	Grade
1. score ≥ 91	A
2. $76 \leq \text{score} \leq 90$	B
3. $61 \leq \text{score} \leq 75$	C
4. score ≤ 60	D

The function compiles successfully but fails to return the desired result due to logical errors. The task is to debug the program to pass all the test cases.

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4

The screenshot shows the amcat website interface for a question titled "Automata Fix". The user is logged in as "raghav gupta" with TEST ID: 130012353262323. The question is "Question 4 out of 7" and the timer shows "00:18:53". The problem description states: "You are required to fix all logical errors in the given code. You can click on Compile & Run anytime to check the compilation/execution status of the program. You can use printf to debug your code. The submitted code should be logically/syntactically correct and pass all testcases. Do not write the main() function as it is not required. Code Approach: For this question, you will need to correct the given implementation. We do not expect you to modify the approach or incorporate any additional library methods." The function to be fixed is `printColor(int num)`, which is supposed to print names of color according to the given input number `num`. When the values of `num` equal 1, 2, 3, 4, the function prints "Red", "Black", "White", "Green" respectively. For any other values of `num` it should print "No color". The function compiles fine but fails to return the desired result for some cases. The task is to fix the code so that it passes all test cases. The provided code is as follows:

```
1 // You can print the values to stdout for debugging
2 void printColor(int num)
3 {
4     switch(num)
5     {
6         case 1:
7             printf("Red");
8         case 2:
9             printf("Black");
10        case 3:
11            printf("White");
12        case 4:
13            printf("Green");
14        default:
15            printf("No color");
16            break;
17    }
18 }
```

5

The screenshot shows the amcat website interface for a question titled "Automata Fix". The user is logged in as "raghav gupta" with TEST ID: 130012353262323. The question is "Question 5 out of 7" and the timer shows "00:18:45". The problem description states: "You are required to fix all logical errors in the given code. You can click on Compile & Run anytime to check the compilation/execution status of the program. You can use printf to debug your code. The submitted code should be logically/syntactically correct and pass all testcases. Do not write the main() function as it is not required. Code Approach: For this question, you will need to correct the given implementation. We do not expect you to modify the approach or incorporate any additional library methods." The function to be fixed is `deleteDuplicate(int *arr, int len)`, which takes an array `arr` of length `len` (len > 0) as an input. It is supposed to remove duplicate integers from the input array `arr` such that for each distinct integer, the first occurrence is retained and all the duplicate elements following it are removed. For example: given the input array `arr` {2,3,2,5,6,6,7}, the expected output is {2,3,5,6,7}. The function compiles successfully but fails to return the desired result due to logical errors. The task is to debug the program to pass all the test cases. The provided code is as follows:

```
1 // You can print the values to stdout for debugging
2 int deleteDuplicate(int *arr, int len){
3     int count = 0, p, i, j, k;
4     int originalLength = len;
5     for(i=0; i<len; i++){
6         for(j = i+1; j<len; j++){
7             if(arr[j] == arr[i]){
8                 for(k=j; k<len-1; k++){
9                     arr[k] = arr[k+1];
10                }
11                len = len - 1;
12                count = count + 1;
13                j = i;
14            }
15        }
16    }
17    return (int *)arr;
18 }
```

6

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Automata Fix Question 6 out of 7

Problem | Test Cases | Output

Problem

You are required to correct the syntax of the given code without changing its logic. You can click on **Compile & Run** anytime to check the compilation/execution status of the program. You can use `printf` to debug your code. The submitted code should be logically/syntactically correct and pass all testcases. Do not write the `main()` function as it is not required.

Code Approach: For this question, you will need to correct the given implementation. We **do not** expect you to modify the approach or incorporate any additional library methods.

The function `getDigitSum(int* arr, int len)` accepts an integer array `arr` of length `len`. It is supposed to calculate the sum of digits of the smallest element in the input array. It returns 1 if the calculated sum is even and returns 0 otherwise.

However, there is a compilation error in the code. Your task is to fix it so that the program works for all input values.

Note: The function `getDigitSum` uses another function `getSum(int num)` which returns the sum of digits of the input number `num`.

Test Cases

Output

Save **Compile & Run** **Next Question**

Navigate to question

Reset

```
1 // You can print the values to stdout for debugging
2 int getSum(int num)
3
4 {
5     int sum=0;
6     while(num!=0)
7     {
8         sum=sum+(num%10);
9         num=num/10;
10    }
11    return sum;
12 }
13
14 int getDigitSum(int *arr, int len)
15 {
16     int i,result;
17     for(int i=0, min = arr[0];i<len;i++)
```

// You can print the values to stdout for debugging
int getSum(int num)

```
{
    int sum=0;
    while(num!=0)
    {
        sum=sum+(num%10);
        num=num/10;
    }
    return sum;
}
```

```
int getDigitSum(int *arr, int len)
{
```

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```
int i,result;

for(int i=0, min = arr[0];i<len;i++)

{

    if(arr[i]<min)

        min=arr(i);

}

result=getSum(min);

if(result==0)
    return 0;
if(result%2==0)

    return1;

else

    return 0;

}
```

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The screenshot shows a web browser window with multiple tabs. The active tab is 'Aspirer Minds' with the URL 'https://amcat.aspiringminds.com'. The page header includes the amcat logo and a user profile for 'raghav gupta' with a test ID. The main content area displays a problem titled 'Automata Fix' (Question 7 out of 7) with a timer at 00:17:56. The problem description states that the user must complete a C++ program by reusing existing functions from the 'Helper Code' tab. The program's task is to implement a function `printPrime(int num, int digit)` that prints all prime numbers of a given digit starting from an initial number. The 'Helper Code' tab contains a pre-defined `PrimeBank` structure and associated functions. The code editor on the right shows the beginning of the `printPrime` function, with a comment indicating where to write the code.

Problem | Test Cases | Output | Helper Code

Problem You are required to complete the given code by reusing existing functions. Click on *Helper Code* tab to find out the details of functions/ classes provided for reuse. You can click on *Compile & Run* anytime to check the compilation/execution status of the program. You can use *printf* to debug your code. The submitted code should be logically/syntactically correct and pass all testcases. Do not write the *main()* function as it is not required.

Code Approach For this question, you will need to complete the code as in given implementation. We **do not** expect you to modify the approach.

You are given a pre-defined structure **PrimeBank** and also a collection of related functions which can be used to perform some basic operations on the structure.

You will have to implement the function `printPrime(int num, int digit)` which accepts initial number *num* and number of digits *n* as inputs and prints all the prime numbers of *n* digits starting from the initial number *num*.

You are supposed to use **Primebank** structure and associated functions for this task.

(Please refer to the *Helper Code* tab for details regarding the structure **PrimeBank** and the predefined functions around it)

Save | Compile & Run | Submit Code Test | Navigate to question

```
1 // You can print the values to stdout for debugging
2 void printPrime(int num, int digit)
3 {
4     // write your code here
5 }
6
```

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