

SIMATS

Saveetha School of Engineering

KOMATIGUNTLA VASANTH KUMAR
192211930

Questions

CEQ20.

Find the factorial of n?

Sample Input:
N = 4

Sample output:
4 Factorial = 24

Test Cases

1. N = 0
2. N = -5
3. N = 1
4. N = 0
5. N = 3A

CEQ19

CEQ2

CEQ20

CEQ21

CEQ22

CEQ23

CEQ24

CEQ25

CEQ26

CEQ27

C

Run

Save

Logout

```
1. #include <stdio.h>
2.
3. int main() {
4.     int num, i, factorial = 1;
5.
6.     printf("Enter a positive integer:");
7.     scanf("%d", &num);
8.
9.     if (num < 0) {
10.        printf("invalid input: number must be positive.\n");
11.    } else {
12.        for (i = 1; i <= num; i++) {
13.            factorial *= i;
14.        }
15.        printf("The factorial of %d is %d.\n", num, factorial);
16.    }
17. }
```

4

Enter a positive integer:The factorial of 445 is

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Questions

CEQ2.

Write a program to check the entered user name is valid or not. Get both the inputs from the u

Sample Input:
Enter the user name: Saveetha@789
Reenter the user name: Saveetha@123

Sample Output:
User name is Invalid

Test Cases

1. Student@123; Student@123

2. 123456; 12345

3. @#%^&; @#%^*

4. abcdef_12; abcdef_12

CEQ19

CEQ20

CEQ21

CEQ22

CEQ23

CEQ24

CEQ25

CEQ26

CEQ27

C

Run

Save

Logout

```
1. #include<stdio.h>
2. #include<string.h>
3.
4. int main() {
5.     char str1[50], str2[50];
6.     printf("Enter the user name:");
7.     fgets(str1, 50, stdin);
8.
9.     printf("Reenter the user name:");
10.    fgets(str2, 50, stdin);
11.
12.    if (strcmp(str1, str2) == 0) {
13.        printf("ames are valid .\n");
14.    } else {
15.        printf("User names are invalid .\n");
16.    }
17.    return 0;
18. }
19.
```

Your Input Goes Here....!!!

Enter the user name:Reenter the user name:ames are valid .

Questions
CMQ8

Write a C program to display the details of student(Name , Age) by passing structures to a Function.

Sample Input :
Enter No.Students: 1
Enter student 1 Name, Age :AAA, 25

Sample Output:
Student 1 details:
Name: AAA
Age : 25

Test Cases
No Student 4 (Any details of student)
No Student 5
No Student 1(62, 28)
No Student A
No Student 1(xxx, 28.2)

CMQ10
CMQ11
CMQ2
CMQ20
CMQ3
CMQ6
CMQ5
CMQ7
CMQ8
CMQ9

CRunSaveLogout

```
1. #include<stdio.h>
2. int main()
3. {
4.     int numStudents,totalUsers,numStaff,numNonTeachingStaff,numStudentsUsers;
5.     printf("enter the number of students user: \n");
6.     scanf("%d",&numStudents);
7.     printf("enter the total number of users: \n");
8.     scanf("%d",&totalUsers);
9.     printf("enter the number od staff users: \n");
10.    scanf("%d",&numStaff);
11.    printf("enter the number of non teaching satff users: \n");
12.    scanf("%d", &numNonTeachingStaff);
13.    numStudentsUsers=numStudents+(totalUsers-numStaff-numNonTeachingStaff*3);
14.    printf("number of students users in the college is:%d\n",numStudentsUsers);
15.    return 0;
16. }
17.
18.
19.
20.
21.
22.
23.
24.
25.
26.
27.
28.
```

Your Input Goes Here...!!!

enter the number of students user:
enter the total number of users:
enter the number od staff users:
enter the number of non teaching satff users:
number of students users in the college is:-9441

Questions
CMQ12

Write a Program to find the sum and average of numbers in a matrix.

Sample Input:
1 2 3
4 5 6
7 8 9

Output:
Sum = 45
Average = 5

Test Cases

- Test Case 1
- Test Case 2
- Test Case 3
- Test Case 4
- Test Case 5
- Test Case 6
- Test Case 7
- Test Case 8
- Test Case 9
- Test Case 10

CRunSaveLogout

```
1. #include<stdio.h>
2. int main() {
3.     int matrix[3][3], i, j, sum = 0;
4.     float average;
5.     printf("Enter the elements of the matrix:\n");
6.     for(i=0; i<3; i++) {
7.         for(j=0; j<3; j++) {
8.             scanf("%d", &matrix[i][j]);
9.         }
10.    }
11.    for(i=0; i<3; i++) {
12.        for(j=0; j<3; j++) {
13.            sum += matrix[i][j];
14.        }
15.    }
16.    average = (float)sum / 9;
17.    printf("sum = %d\n", sum);
18.    printf("Average = %f\n", average);
19.
20.    return 0;
21. }
22.
23.
24.
25.
26.
27.
28.
```

Your Input Goes Here....!!!

Runtime Error

CMQ1.

Sample Input:

Enter Date : 04/11/1947

Sample Output:

Given year is Non Leap Year

- 04/11/19.47
- 11/15/1936
- 31/45/1996
- 64/09/1947
- 00/00/2000

Your Input Goes Here...!!!

Enter a year: 0 is a leap year.

```

1 #include <stdio.h>
2
3
4 int main() {
5     int year;
6     printf("Enter a year: ");
7     scanf("%d", &year);
8
9     if (year % 4 == 0) {
10         if (year % 100 == 0) {
11             if (year % 400 == 0)
12                 printf("%d is a leap year.", year);
13             else
14                 printf("%d is not a leap year.", year);
15         }
16         else
17             printf("%d is a leap year.", year);
18     }
19     else
20         printf("%d is not a leap year.", year);
21
22     return 0;
23 }
24
25
26
27
28

```

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SIMATS

Saveetha School of Engineering

KOMATI GUNILA VASANTH KUMAR
192211930

Questions

CMQ7.

Write a C program to display the subject and mark information using Dynamic Memory Allocation for Structure.

Sample Input:
Enter the number of records: 2
Enter subject 1 and marks:
Science 82
Enter subject 2 and marks:
DSA 73

Sample Output :
Science 82
DSA 73

Test Cases

Enter the number of records :4 (Any details of subject and marks)
Enter the number of records :A
Enter the number of records :1 (CPP 74.5)
Enter the number of records :1 (CPP seventy)
Enter the number of records :1 (233 75)

CMQ19

CMQ20

CMQ21

CMQ3

CMQ4

CMQ5

CMQ6

CMQ7

CMQ8

CMQ9

C

Run

Save

Logout

```
1. #include<stdio.h>
2. #include<stdlib.h>
3. struct student {
4.     char subjects[50];
5.     int marks;
6. };
7. int main() {
8.     int n, i;
9.     struct student *ptr;
10.    printf("Enter the number of records :");
11.
12.    scanf("%d", &n);
13.    ptr = (struct student*) malloc(n * sizeof(struct student));
14.    for (i = 0; i < n; i++) {
15.        printf("Enter subject %dand ,marks:\n", i+1);
16.        scanf("%s %d", (ptr+i)->subject, &(ptr+i)->marks);
17.    }
18.    printf("\nEnter details are:\n");
19.    for(i = 0; i < n; i++) {
20.        printf("%s %d\n", (ptr+i)->subject, (ptr+i)->marks);
21.    }
22.    free(ptr);
23.    return 0;
24. }
```

Your Input Goes Here....!!!

<pre>ExecutionFolder/192211930.c: In function 'main':
ExecutionFolder/192211930.c:16:29: error: 'struct student'
has no member named 'subject'; did you mean 'subjects'?
16 | scanf("%s %d", (pt

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Questions
CMQ10

Write a Program to display the diagonal elements in a matrix array and also find the sum of them.

Sample input:
1 2 3
4 5 6
7 8 9

Output:
Diagonal Elements are 1 5 9
Sum of diagonal elements = 15

Test Cases

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

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21

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C

Run

Save

Logout

```
1. #include <stdio.h>
2.
3. int main() {
4.     int matrix[10][10];
5.     int i, j, sum = 0;
6.
7.     matrix[0][0] = 1;
8.     matrix[0][1] = 2;
9.     matrix[0][2] = 3;
10.    matrix[1][0] = 4;
11.    matrix[1][1] = 5;
12.    matrix[1][2] = 6;
13.    matrix[2][0] = 7;
14.    matrix[2][1] = 8;
15.    matrix[2][2] = 9;
16.
17.    printf("The matrix is:\n");
18.    for (j = 0; j < 3; j++) {
19.        for (i = 0; i < 3; i++) {
20.            printf("%d ", matrix[i][j]);
21.        }
22.        printf("\n");
23.    }
24.
25.    printf("The diagonal elements are: ");
26.    for(i = 0; i < 3; i++) {
27.        printf("%d ", matrix[i][i]);
28.        sum += matrix[i][i];
29.    }
30.
31.    printf("\nThe sum of diagonal elements is %d\n", sum);
32.
33.    return 0;
34. }
```

Your Input Goes Here...!!!

The matrix is:
1 2 3
4 5 6
7 8 9
The diagonal elements are: 1 5 9
The sum of diagonal elements is 15

Questions

CMQ13

Write a program in C to add numbers using call by reference.

Test Data :
Input the first number : 5
Input the second number : 6

Expected Output :
The sum of 5 and 6 is 11

Test Cases

- 1. X = 0, N = 4
- 2. X = 5, N = 0
- 3. X = -3, N = 3
- 4. X = 0, N = 0
- 5. X = 123, N = 123

- 1. X = 0, N = 4
- 2. X = 5, N = 0
- 3. X = -3, N = 3
- 4. X = 0, N = 0
- 5. X = 123, N = 123

CRunSaveLogout

```
1. #include <stdio.h>
2.
3. void add(int *a, int *b, int *sum){
4.     *sum = *a + *b;
5. }
6. int main() {
7.     int num1, num2, sum;
8.     printf("Enter two numbers to add: ");
9.     scanf("%d %d", &num1, &sum);
10.
11.     printf("sum of %d and %d is %d", num1, num2, sum);
12.
13.     return 0;
14. }
15.
16.
17.
18.
19.
20.
21.
22.
23.
24.
25.
26.
27.
28.
```

Your Input Goes Here...!!!

Enter two numbers to add: sum of 16 and 0 is 708

CMQ14.

```
Test Data :
Input the number of elements to store in the array :5
Input 5 number of elements in the array :
element - 0 : 5
element - 1 : 7
element - 2 : 2
element - 3 : 9
element - 4 : 8
```

Expected Output :

Test Cases

1. $N = 16$
2. $N = -8$
3. $N = 0$
4. $N = -10.01$
5. $N = 11.22$

CMQ1
CMQ10
CMQ11
CMQ12
CMQ13
CMQ14
CMQ15
CMQ16
CMQ17
CMQ18

Run

Save

Logout

```

1. #include <stdio.h>
2. int main() {
3.
4.     int n, i;
5.     printf("Enter the number of elements: ");
6.     scanf("%d", &n);
7.
8.     int arr[n];
9.     int *ptr = arr;
10.
11.     printf("Enter %d elements:\n", n);
12.     for(i = 0; i < n; i++) {
13.         scanf("%d", ptr+i);
14.     }
15.     printf("Elements in the array are: \n");
16.     for(i = 0; i < n; i++) {
17.         printf("%d ", *(ptr+i));
18.     }
19.
20.     return 0;
21. }

```

Your Input Goes Here...!!!

Enter the number of elements: Enter 0 elements:
Elements in the array are:

Questions
CMQ11.

Write a Program to find the Maximum and Minimum value in a given array of numbers.

Sample Input:
Enter no. of elements in an array 5
Enter the elements:
1 2 3 4 5

Output:
Maximum of an array 5
Minimum of an array 1

Test Cases

- CMQ11
- CMQ12
- CMQ13
- CMQ14
- CMQ15
- CMQ16
- CMQ17
- CMQ18

C

Run

Save

Logout

```
1. #include<stdio.h>
2. int main() {
3.     int arr[10];
4.     int i, n, max, min;
5.     printf("Enter the size of the array(up to 10): ");
6.     scanf("%d", &n);
7.     printf("Enter he elements of the array: ");
8.     for(i = 0; i < n; i++) {
9.         scanf("%d", &arr[i]);
10.    }
11.    max = arr[0];
12.    min = arr[0];
13.    for(i = 1; i < n; i++) {
14.        if(arr[i] > max) {
15.            max = arr[i];
16.        }
17.        if(arr[i] < min) {
18.            min = arr[i];
19.        }
20.    }
21.    printf("Maximum value in the array: %d\n",max);
22.    printf("Minimum value in the array: %d\n",min);
23.    return 0;
24. }
25.
26.
27.
28.
```

Your Input Goes Here...!!!

Enter the size of the array(up to 10): Enter he elements of the array: Maximum value in the array: 0
Minimum value in the array: 0

Questions

CMQ18

Write a program in C to check whether a number is a prime number or not using the function.

Test Data :
Input a positive number : 5

Expected Output :
The number 5 is a prime number.

Test Cases

1. N = P
2. N = 0
3. N = -4
4. N = 11
5. N = 7.2

CMQ18

CMQ19

CMQ20

CMQ21

CMQ22

CMQ23

CMQ24

CMQ25

CMQ26

CMQ27

CMQ28

CMQ29

CMQ30

CMQ31

CMQ32

CMQ33

CMQ34

CMQ35

CMQ36

CMQ37

CMQ38

CMQ39

CMQ40

CMQ41

CMQ42

CMQ43

CMQ44

CMQ45

CMQ46

CMQ47

CMQ48

CMQ49

CMQ50

CMQ51

CMQ52

CMQ53

CMQ54

CMQ55

CMQ56

CMQ57

CMQ58

CMQ59

CMQ60

CMQ61

CMQ62

CMQ63

CMQ64

CMQ65

CMQ66

CMQ67

CMQ68

CMQ69

CMQ70

CMQ71

CMQ72

CMQ73

CMQ74

CMQ75

CMQ76

CMQ77

CMQ78

CMQ79

CMQ80

CMQ81

CMQ82

CMQ83

CMQ84

CMQ85

CMQ86

CMQ87

CMQ88

CMQ89

CMQ90

CMQ91

CMQ92

CMQ93

CMQ94

CMQ95

CMQ96

CMQ97

CMQ98

CMQ99

CMQ100

C

Run

Save

Logout

```
1. #include<stdio.h>
2. int is_prime(int num) {
3.     int i;
4.     if (num <= 1) {
5.         return 0;
6.     }
7.     for (i = 2; i < num; i++) {
8.         if (num % i == 0) {
9.             return 0;
10.        }
11.    }
12.    return 1;
13. }
14.
15. int main() {
16.     int num;
17.     printf("Enter a number: ");
18.     scanf("%d", &num);
19.     if (is_prime(num)) {
20.         printf("%d is a prime number\n", num);
21.     } else {
22.         printf("%d is not a prime number\n", num);
23.     }
24.     return 0;
25. }
26.
27.
28.
```

Your Input Goes Here...!!!

Enter a number: 0 is not a prime number

Questions
CMO15

Write a program in C to swap elements using call by reference.

Test Data :
Input the value of 1st element : 5
Input the value of 2nd element : 6
Input the value of 3rd element : 7

Expected Output :
The value before swapping are :
element 1 = 5
element 2 = 6
element 3 = 7

Test Cases

Run

Save

Logout

```
1. #include<stdio.h>
2. void swap(int *a, int *b) {
3.     int temp = *a;
4.     *a = *b;
5.     *b = temp;
6. }
7. int main() {
8.     int arr[3];
9.     printf("Input the value of 1st elements : ");
10.    scanf("%d", &arr[0]);
11.    printf("Input the value of 2nd element : ");
12.    scanf("%d", &arr[1]);
13.    printf("Input the value of 3rd element : ");
14.    scanf("%d", &arr[2]);
15.
16.    printf("\nThe value before swapping are:\n");
17.    printf("element 1 = %d\n", arr[0]);
18.    printf("element 2 = %d\n", arr[1]);
19.    printf("element 3 = %d\n", arr[2]);
20.    swap(&arr[0], &arr[2]);
21.    printf("element 1 = %d\n", arr[0]);
22.    printf("element 2 = %d\n", arr[1]);
23.    printf("element 3 = %d\n", arr[2]);
24.    return 0;
25. }
```

Your Input Goes Here...!!!

Input the value of 1st elements : Input the value of 2nd element : Input the value of 3rd element :
The value before swapping are:
element 1 = 495
element 2 = 16
element 3 = 0
element 1 = 0
element

Questions

CMQ16

Write a program in C to find the factorial of a given number using pointers.

Test Data :
Input a number : 5

Expected Output :
The Factorial of 5 is : 120

Test Cases

1. N = 0
2. N = -5
3. N = 1
4. N = M
5. N = %

CMQ16

CMQ16

CMQ16

CMQ16

CMQ16

CMQ16

CMQ16

CMQ16

CMQ16

CMQ16

C

Run

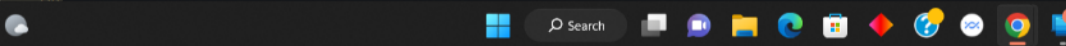
Save

Logout

1. #include <stdio.h>
2.
3. void factorial(int num, int *result);
4.
5. int main() {
6. int num, result;
7. printf("Enter a number: ");
8. scanf("%d", &num);
9. factorial(num, &result);
10. printf("The factorial of %d is: %d\n", num , result);
11. return 0;
12. }
13.
14. void factorial(int num, int *result) {
15. int i;
16. *result = 1;
17. for (i = 1; i <= num; i++) {
18. *result *= i;
19. }
20. }
21.
22.
23.
24.
25.
26.
27.
28.

Your Input Goes Here...!!!

Enter a number: The factorial of 0 is: 1



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Questions
CMQ4.

Write a program to print the all Odd numbers and number of even numbers in between H and N?

Sample Input:

H = 6

N = 15

Sample Output:

All Odd Numbers = 7,9,11,13

Test Cases

1. H = 100, N = 100
2. H = 500, N = 100
3. H = -5, N = 4
4. H = 72, N = -72
5. H = 0, N = 0

- CMQ1
- CMQ2
- CMQ20
- CMQ3
- CMQ5
- CMQ6
- CMQ7
- CMQ8

CRunSaveLogout

```
1. #include <stdio.h>
2.
3. int main() {
4.     int H, N, even_count = 0;
5.
6.     printf("Enter the value of N: ");
7.     scanf("%d", &N);
8.     printf("Enter the value of H: ");
9.     scanf("%d", &H);
10.
11.     for (int num = H; num <= N; num++) {
12.         if (num % 2 != 0) {
13.             printf("%d,", num);
14.         }
15.         else {
16.             even_count++;
17.         }
18.     }
19.     printf("\nNumber of Evn Numbers = %d", even_count);
20.     return 0;
21. }
22.
23.
24.
25.
26.
27.
28.
```

Your Input Goes Here....!!!

```
<pre>ExecutionFolder/192211361.c: In function 'main':
ExecutionFolder/192211361.c:8:37: error: expected ',' before ';'
token
8 |     printf("Enter the value of N: ");
|                                     ^
|                                     ;
```

Questions

CMQ19

Write a program in C to print all perfect numbers in given range using the function.

Test Data :
Input lowest search limit of perfect numbers : 1
Input lowest search limit of perfect numbers : 100

Expected Output :
The perfect numbers between 1 to 100 are :
6
28

Test Cases

1. 17
2. 261
3. 143
4. 841
5. 963

- CMQ19
- CMQ20
- CMQ21
- CMQ22
- CMQ23
- CMQ24
- CMQ25
- CMQ26
- CMQ27
- CMQ28
- CMQ29
- CMQ30
- CMQ31
- CMQ32
- CMQ33
- CMQ34
- CMQ35
- CMQ36
- CMQ37
- CMQ38
- CMQ39
- CMQ40
- CMQ41
- CMQ42
- CMQ43
- CMQ44
- CMQ45
- CMQ46
- CMQ47
- CMQ48
- CMQ49
- CMQ50

C

Run

Save

Logout

```
1. #include<stdio.h>
2. int isperfect(int num) {
3.     int i, sum=0;
4.     for(i=1; i<=num/2; i++) {
5.         if (num%i == 0) {
6.             sum+=i;
7.         }
8.     }
9.     if(sum == num) {
10.        return 1;
11.    } else {
12.        return 0;
13.    }
14. }
15. int main() {
16.     int start, end, i;
17.     printf("Enter the start and end values: ");
18.     scanf("%d %d", &start, &end);
19.     printf("The perfect number between %d and %d are: ", start, end);
20.     for(i=start; i<=end; i++) {
21.         if(isperfect(i)) {
22.             printf("%d ", i);
23.         }
24.     }
25.     return 0;
26. }
```

Your Input Goes Here...!!!

Enter the start and end values: The perfect number between 16 and 381 are:

Questions
CMQ5.

Write a program to find the number of student users in the college, get the total users, staff users details from the client.

Sample Input:

Total Users: 856

Sample Output:

Student Users: 688

Test Cases

- ```
1. Total User: 0
2. Total User: -143
3. Total User: 1026, Staff User: 1026
4. Total User: 450, Staff User: 540
5. Total User: 600, Staff User: 450
```

|       |
|-------|
| CMQ17 |
| CMQ18 |
| CMQ19 |
| CMQ2  |
| CMQ20 |
| CMQ3  |
| CMQ4  |
| CMQ5  |
| CMQ6  |
| CMQ7  |
| CMQ8  |

[Logout](#)

Your Input Goes Here...!!!

Student Users:730



Questions  
CMQ17.

Write a program in C to compute the sum of all elements in an array using pointers.

Test Data :  
Input the number of elements to store in the array (max 10) : 5  
Input 5 number of elements in the array :  
element - 1 : 2  
element - 2 : 3  
element - 3 : 4  
element - 4 : 5  
element - 5 : 6

Expected Output :

Test Cases

1. N = 0,1,3,8,7,-5  
1. N = 5,5,5,5,5,4  
2. N = -2,2,-2,4,-4  
3. N = -5,5,30,0,5  
4. N = 0,2,2,4,5,8

- Test Case 1
- Test Case 2
- Test Case 3
- Test Case 4
- Test Case 5
- Test Case 6
- Test Case 7
- Test Case 8
- Test Case 9
- Test Case 10

C

Run

Save

Logout

```
1. #include<stdio.h>
2. #define MAX_SIZE 10
3. int main() {
4. int arr[MAX_SIZE], n, sum = 0;
5. int *p;
6. printf("Input the number of elements to store in the array (max %d):",MAX_SIZE);
7. scanf("%d", &n);
8. printf("Input %d number of elements in the array:\n", n);
9.
10. for(int i = 0; i < n; i++) {
11. printf("element -%d: ", i+1);
12. scanf("%d", &arr[i]);
13. }
14. p = arr;
15. for(int i = 0; i < n; i++) {
16. sum += *p;
17. p++;
18. }
19. printf("The sum of array is : %d", sum);
20. return 0;
21. }
```

Your Input Goes Here...!!!

Input the number of elements to store in the array (max 10):Input 0 number of elements in the array:  
The sum of array is : 0

Questions  
CMQ6

Write a program to print the longest word in the below text "Programming  
does wonders in the world".

Test Cases

- CMQ1
- CMQ2
- CMQ3
- CMQ4
- CMQ5
- CMQ6
- CMQ7
- CMQ8

C

Run

Save

Logout

```
1. #include<stdio.h>
2. #include<conio.h>
3. int main() {
4. char *a;
5. int i, max=0, pos=0, l=0;
6. gets(a);
7. for(i=0; a[i]!='\0'; i++)
8. {
9. if(l==max)
10. {
11. pos=i-max;
12. }
13. if (a[i]==' ')
14. {
15. l=0;
16. }
17. else
18. {
19. l++;
20. }if(l>max)
21. {
22. max=l;
23. }
24. }
25. printf("%d\n",max);
26. for(i=1; i<=max;i++,pos++)
27. {
28. printf("%c", a[pos]);
```

Your Input Goes Here...!!!

Runtime Error

Questions  
CMQ8.

Write a C program to display the details of student(Name , Age) by passing structures to a function.

Sample Input :  
Enter No.Students: 1  
Enter student 1 Name, Age :AAA, 25

Sample Output:  
Student 1 details:  
Name: AAA  
Age : 25

Test Cases

No Student :4 (Any details of student)  
No Student :5  
No Student :1 (62, 28)  
No Student :A  
No Student :1 (xxx, 28.2)

- CMQ1
- CMQ2
- CMQ20
- CMQ3
- CMQ4
- CMQ5
- CMQ6
- CMQ7
- CMQ8
- CMQ9

CRunSaveLogout

```
1. #include<stdio.h>
2. int main()
3. {
4. int numStudents,totalUsers,numStaff,numNonTeachingStaff,numStudentsUsers;
5. printf("enter the number of students user: \n");
6. scanf("%d",&numStudents);
7. printf("enter the total number of users: \n");
8. scanf("%d",&totalUsers);
9. printf("enter the number od staff users: \n");
10. scanf("%d",&numStaff);
11. printf("enter the number of non teaching satff users: \n");
12. scanf("%d", &numNonTeachingStaff);
13. numStudentsUsers=numStudents+(totalUsers-numStaff-numNonTeachingStaff*3);
14. printf("number of students users in the college is:%d\n",numStudentsUsers);
15. return 0;
16. }
17.
18.
19.
20.
21.
22.
23.
24.
25.
26.
27.
28.
```

Your Input Goes Here...!!!

enter the number of students user:  
enter the total number of users:  
enter the number od staff users:  
enter the number of non teaching satff users:  
number of students users in the college is:-9441

## CMQ9.

Write a program to find the sum and average of the elements in an array

Sample Input;

Array of elements = {16, 18, 27, 16, 23, 21, 19}

Sample Output:

Sum = 140

Average = 20

### Test Cases

C Run Save

```
1. #include <stdio.h>
2.
3.
4. int main() {
5. int array[] = {16, 18, 27, 16, 23, 21, 19};
6. int array_size = sizeof(array) / sizeof(array[0]);
7. int array_sum = 0;
8. float array_avg=0.0;
9.
10. // calculate sum
11. for (int i = 0; i < array_size; i++) {
12. array_sum += array[i];
13. }
14.
15. // calculate average
16. array_avg = (float)array_sum / array_size;
17.
18. // print results
19. printf("Sum: %d\n", array_sum);
20. printf("Average: %.1f\n", array_avg);
21.
22. return 0;
23. }
```

Your Input Goes Here...!!!

Sum: 140  
Average: 20.0