C programming

CSA0265

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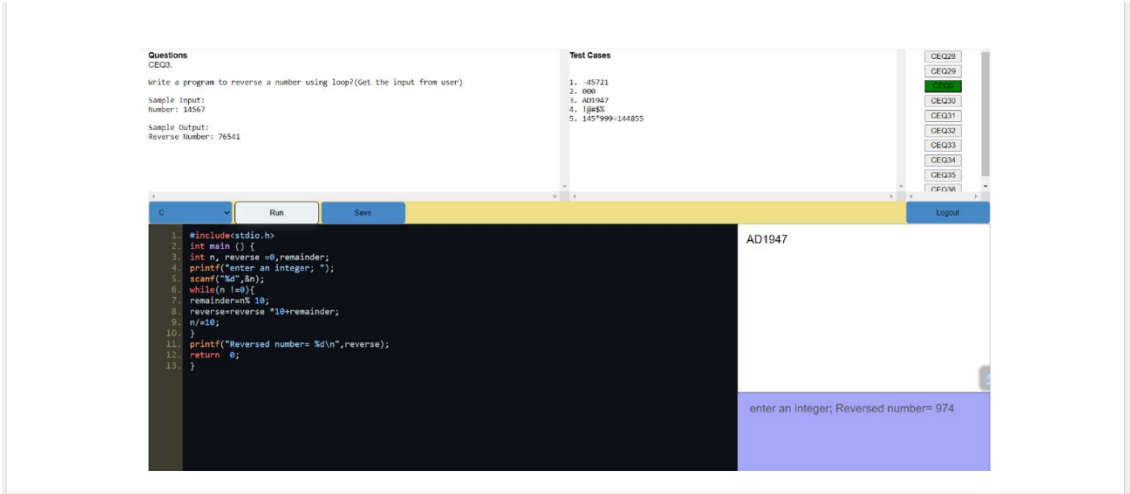
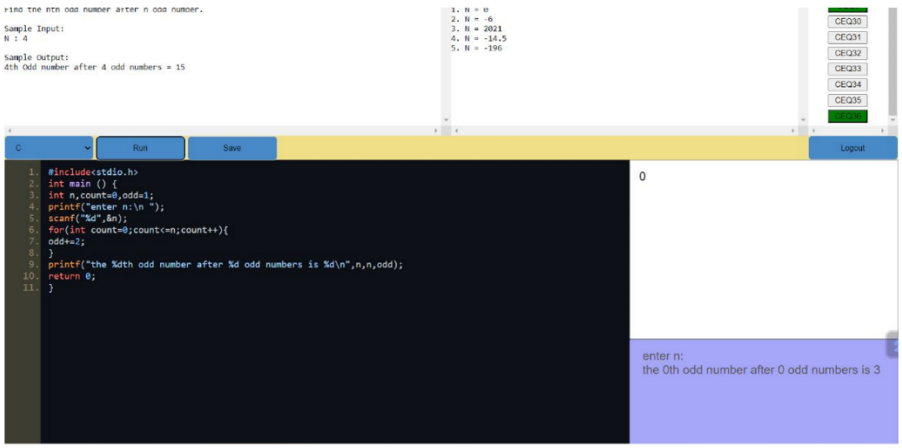
TEAM 6

Forenoon

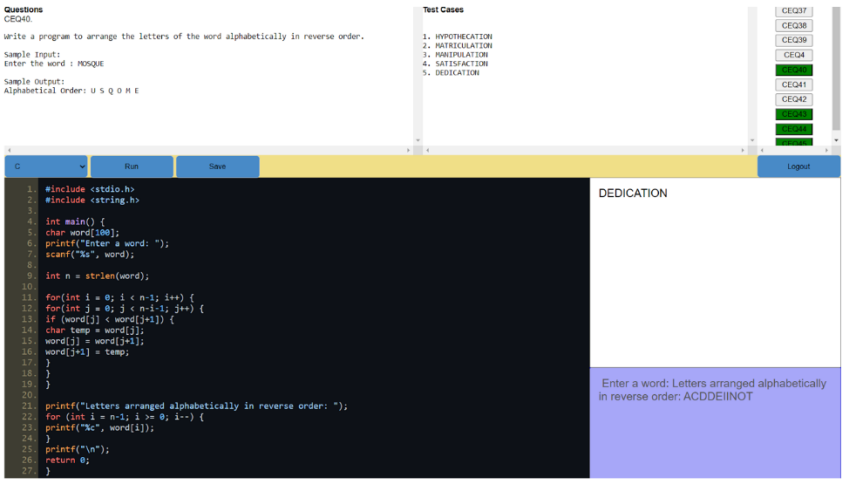
Question 1



Question 2

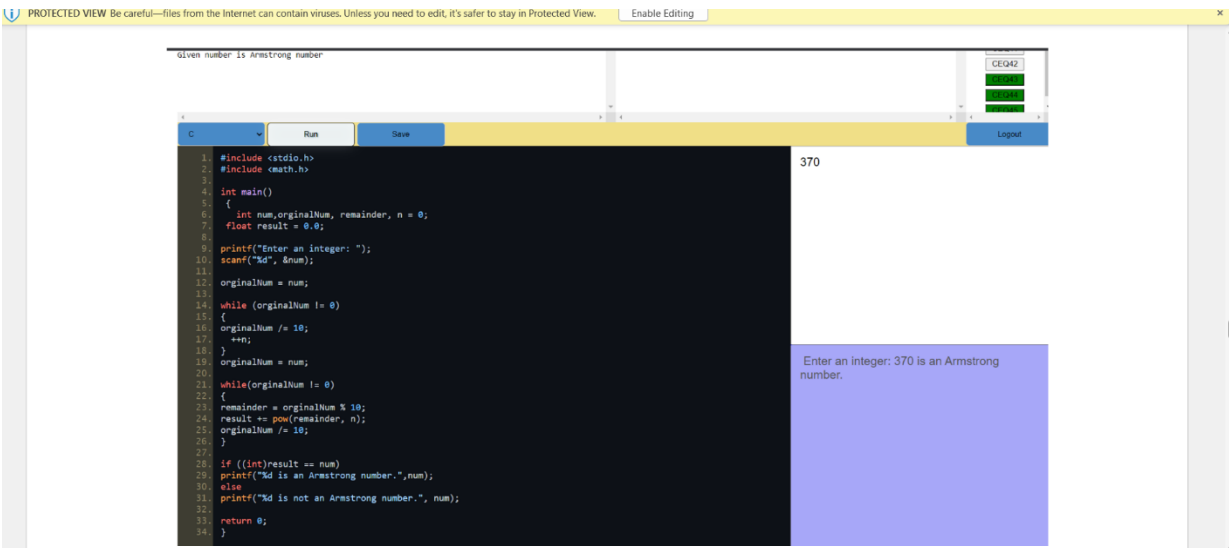

Find the nth odd number after n odd numbers.
Sample Input:
N : 4
Sample Output:
4th Odd number after 4 odd numbers = 15
1. N = 0
2. N = -6
3. N = 2021
4. N = -14.5
5. N = -196
CEQ30
CEQ31
CEQ32
CEQ33
CEQ34
CEQ35
C
Run
Save
Logout
#include<stdio.h>
int main () {
int n,count=0,odd=1;
printf("enter n:\n ");
scanf("%d",&n);
for(int count=0;count<=n;count++){
odd+=2;
}
printf("the %dth odd number after %d odd numbers is %d\n",n,n,odd);
return 0;
}
0
enter n:
the 0th odd number after 0 odd numbers is 3

Question 3

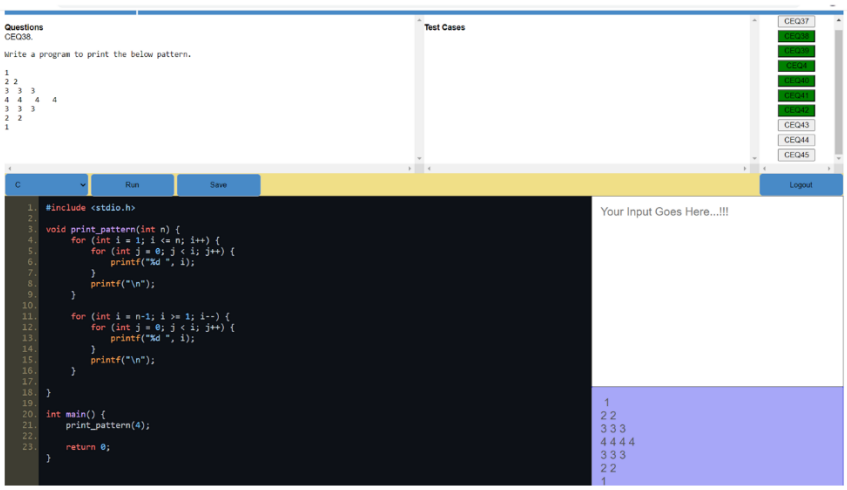

Questions
CEQ40.
Write a program to arrange the letters of the word alphabetically in reverse order.
Sample Input:
Enter the word : MOSQUE
Sample Output:
Alphabetical Order: U S Q O M E
Test Cases
1. HYPOTHECATION
2. MATRICULATION
3. MANIPULATION
4. SATISFACTION
5. DEDICATION
CEQ37
CEQ38
CEQ39
CEQ4
CEQ40
CEQ41
CEQ42
C
Run
Save
Logout
#include <stdio.h>
#include <string.h>
int main() {
char word[100];
printf("Enter a word: ");
scanf("%s", word);
int n = strlen(word);
for(int i = 0; i < n-1; i++) {
for(int j = 0; j < n-i-1; j++) {
if (word[j] < word[j+1]) {
char temp = word[j];
word[j] = word[j+1];
word[j+1] = temp;
}
}
}
printf("Letters arranged alphabetically in reverse order: ");
for (int i = n-1; i >= 0; i--) {
printf("%c", word[i]);
}
printf("\n");
return 0;
}
DEDICATION
Enter a word: Letters arranged alphabetically in reverse order: ACDDEIINOT

Question 4

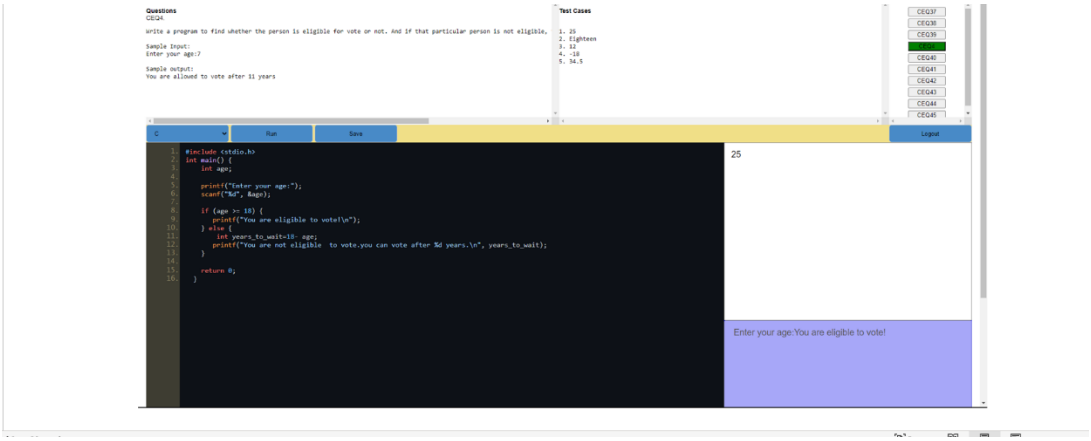
PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing



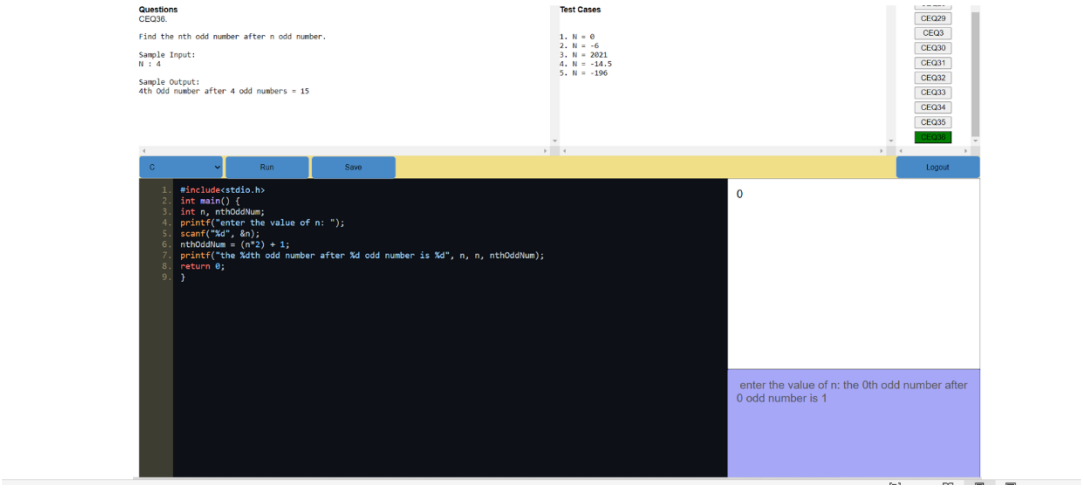
Question 5


Questions
CEQ38.
Write a program to print the below pattern.
1
2 2
3 3 3
4 4 4 4
3 3 3
2 2
1
Test Cases
CEQ37
CEQ38
CEQ39
CEQ40
CEQ41
CEQ42
CEQ43
CEQ44
CEQ45
C
Run
Save
Logout
#include <stdio.h>
void print_pattern(int n) {
for (int i = 1; i <= n; i++) {
for (int j = 0; j < i; j++) {
printf("%d ", i);
}
printf("\n");
}
for (int i = n-1; i >= 1; i--) {
for (int j = 0; j < i; j++) {
printf("%d ", i);
}
printf("\n");
}
}
int main() {
print_pattern(4);
return 0;
}
Your Input Goes Here...!!!
1
2 2
3 3 3
4 4 4 4
3 3 3
2 2
1

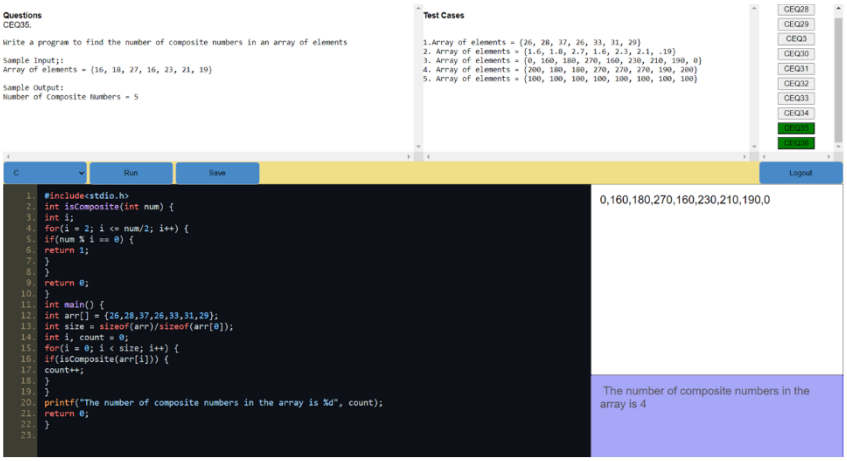
Question 6


Questions
CEG34
Write a program to find whether the person is eligible for vote or not. And if that particular person is not eligible,
Sample Input:
Enter your age:7
Sample output:
You are allowed to vote after 11 years
Test Cases
1. 25
2. Eighteen
3. 12
4. -18
5. 34.5
CEG37
CEG38
CEG39
CEG40
CEG41
CEG42
CEG43
CEG44
CEG45
C
Run
Save
Logout
#include <stdio.h>
int main() {
int age;
printf("Enter your age:");
scanf("%d", &age);
if (age >= 18) {
printf("You are eligible to vote!\n");
} else {
int years_to_wait=18- age;
printf("You are not eligible to vote.you can vote after %d years.\n", years_to_wait);
}
return 0;
}
25
Enter your age:You are eligible to vote!

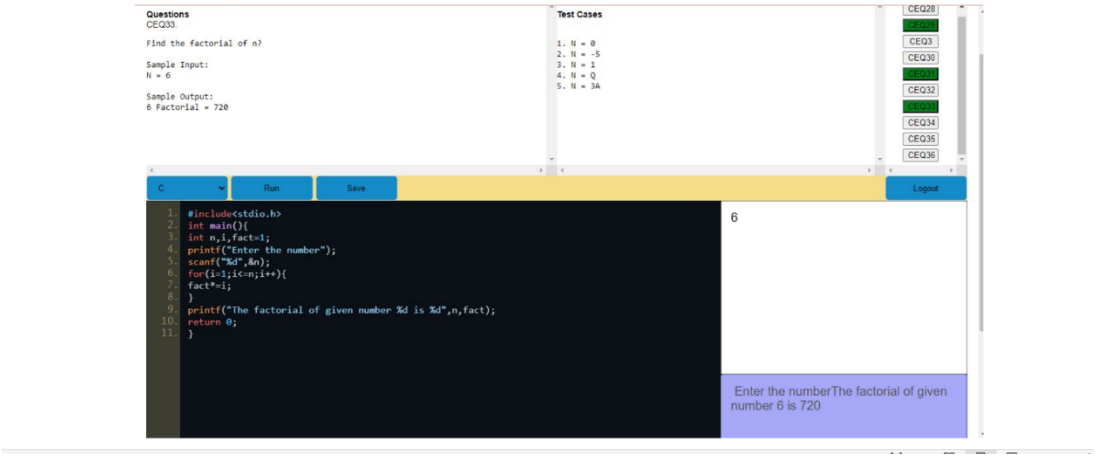
Question 7


Questions
CEQ36.
Find the nth odd number after n odd number.
Sample Input:
N : 4
Sample Output:
4th Odd number after 4 odd numbers = 15
Test Cases
1. N = 0
2. N = -6
3. N = 2021
4. N = -14.5
5. N = -196
CEQ29
CEQ3
CEQ30
CEQ31
CEQ32
CEQ33
CEQ34
CEQ35
C
Run
Save
Logout
#include<stdio.h>
int main() {
int n, nthOddNum;
printf("enter the value of n: ");
scanf("%d", &n);
nthOddNum = (n*2) + 1;
printf("the %dth odd number after %d odd number is %d", n, n, nthOddNum);
return 0;
}
0
enter the value of n: the 0th odd number after 0 odd number is 1

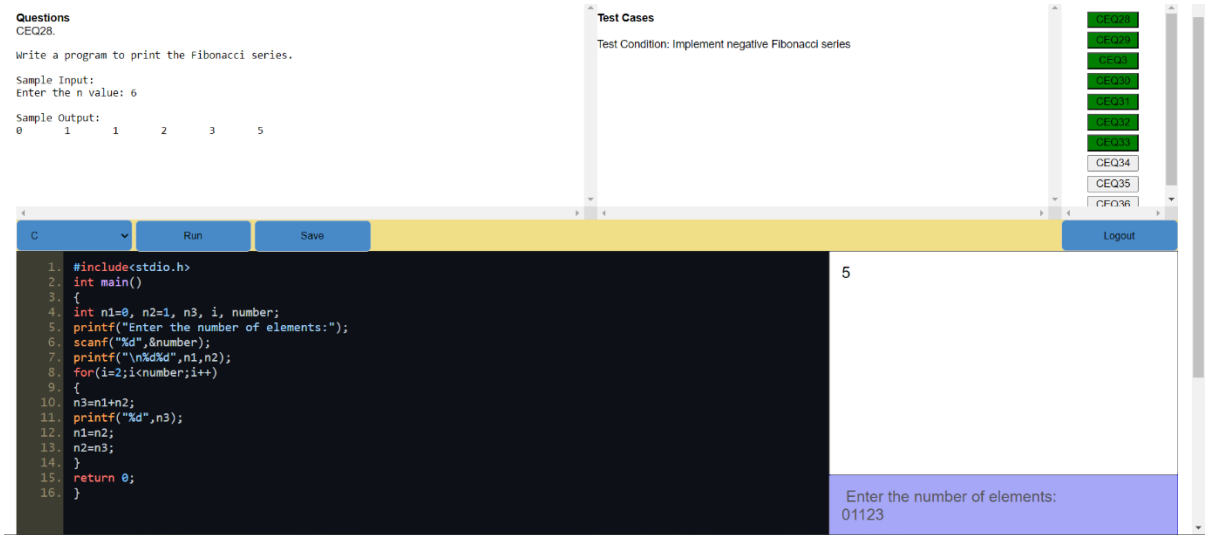
Question 8


Questions
CEQ35.
Write a program to find the number of composite numbers in an array of elements
Sample Input;:
Array of elements = {16, 18, 27, 16, 23, 21, 19}
Sample Output:
Number of Composite Numbers = 5
Test Cases
1.Array of elements = {26, 28, 37, 26, 33, 31, 29}
2. Array of elements = {1.6, 1.8, 2.7, 1.6, 2.3, 2.1, .19}
3. Array of elements = {0, 160, 180, 270, 160, 230, 210, 190, 0}
4. Array of elements = {200, 180, 180, 270, 270, 270, 190, 200}
5. Array of elements = {100, 100, 100, 100, 100, 100, 100, 100}
CEQ28
CEQ29
CEQ3
CEQ30
CEQ31
CEQ32
CEQ33
CEQ34
C
Run
Save
Logout
#include<stdio.h>
int isComposite(int num) {
int i;
for(i = 2; i <= num/2; i++) {
if(num % i == 0) {
return 1;
}
}
return 0;
}
int main() {
int arr[] = {26,28,37,26,33,31,29};
int size = sizeof(arr)/sizeof(arr[0]);
int i, count = 0;
for(i = 0; i < size; i++) {
if(isComposite(arr[i])) {
count++;
}
}
printf("The number of composite numbers in the array is %d", count);
return 0;
}
0,160,180,270,160,230,210,190,0
The number of composite numbers in the array is 4

Question 9


Questions
CEQ33.
Find the factorial of n?
Sample Input:
N = 6
Sample Output:
6 Factorial = 720
Test Cases
1. N = 0
2. N = -5
3. N = 1
4. N = Q
5. N = 3A
CEQ28
CEQ29
CEQ3
CEQ30
CEQ31
CEQ32
CEQ33
CEQ34
CEQ35
CEQ36
C
Run
Save
Logout
#include<stdio.h>
int main(){
int n,i,fact=1;
printf("Enter the number");
scanf("%d",&n);
for(i=1;i<=n;i++){
fact*=i;
}
printf("The factorial of given number %d is %d",n,fact);
return 0;
}
6
Enter the numberThe factorial of given number 6 is 720

Question 10


Questions
CEQ28.
Write a program to print the Fibonacci series.
Sample Input:
Enter the n value: 6
Sample Output:
0 1 1 2 3 5
Test Cases
Test Condition: Implement negative Fibonacci series
CEQ28
CEQ29
CEQ30
CEQ31
CEQ32
CEQ33
CEQ34
CEQ35
C
Run
Save
Logout
#include<stdio.h>
int main()
{
int n1=0, n2=1, n3, i, number;
printf("Enter the number of elements:");
scanf("%d",&number);
printf("\n%d%d",n1,n2);
for(i=2;i<number;i++)
{
n3=n1+n2;
printf("%d",n3);
n1=n2;
n2=n3;
}
return 0;
}
5
Enter the number of elements:
01123