DAY-5 PROGRAMES

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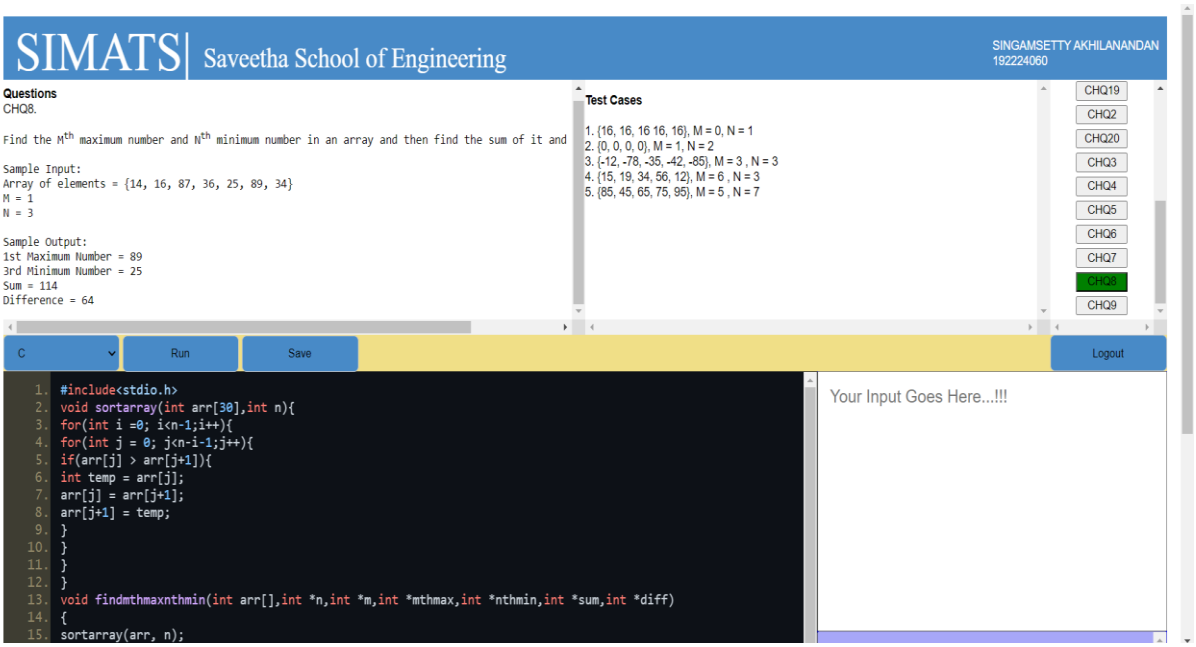

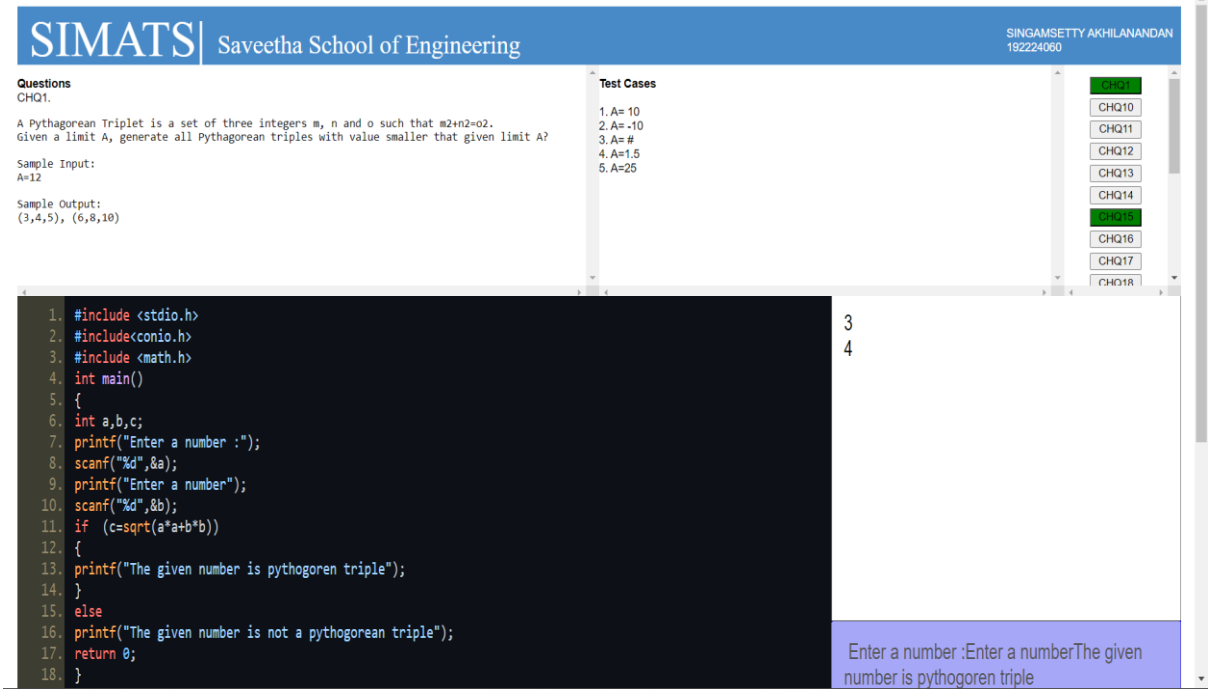

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Questions
CHQ11.

Write a C program for Inserting an element to the array at the specified index.

Sample Input:
Enter the number of Elements: 5

Enter the Elements:
47 34 21 89 12

Element to be inserted 100
At position: 4

Output:
12 21 34 100 47 89

Test Cases

CHQ1 CHQ10 CHQ11 CHQ12 CHQ13 CHQ14 CHQ15 CHQ16 CHQ17 CHQ18

C | Run | Save | Logout

```c
#include<stdio.h>
int main()
{
  int a[10],i,n,ele,pos;
  printf("Enter no.of elements:");
  scanf("%d",&n);
  printf("Elements in array:\n");
  for(i=1;i<=n;i++)
  {
    scanf("%d",&a[i]);
    printf("Elements are:\n");
    for(i=1;i<=n;i++)
    {
      printf("%d\t",a[i]);
    }
  }
   printf("Enter the position:\n");
   scanf("%d",&pos);
   printf("Enter element u want to enter:\n");
   scanf("%d",&ele);
   for(i=1;i<=n;i++)
   {
     if(i>pos)
      a[i]=a[i-1];
     else
     {
       if(i==pos)
       a[i]=a[i];
     }
    }
    printf("Array after inserting:\n");
    for(i=1;i<=n;i++)
    {
      scanf("%d\t",a[i]);
```

5
47
34
21
89
12

Runtime Error

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Questions
CHQ12.

Write a C program to take two arrays as input and try to merge or concatenate two arrays and s

Sample Input:
Enter number of Element in array A: 7
Enter elements: 1 2 3 4 5 6 7
Enter number of Element in array B: 5
11 22 33 44 55

Output:
Merged in array C
1 2 3 4 5 6 7 11 22 33 44 55

Test Cases

CHQ1 CHQ10 CHQ11 CHQ12 CHQ13 CHQ14 CHQ15 CHQ16 CHQ17 CHQ18

C | Run | Save | Logout

```c
#include<stdio.h>
#include<conio.h>
int main()
{
int arr1[50],arr2[50],size1,size2,i,k,merge[100];
printf("enter array 1 size:");
scanf("%d",&size1);
printf("enter array 1 elements:");
for(i=0; i<size1 ;i++)
{
scanf("%d",&arr1[i]);
merge[i]=arr1[i];
}
k=i;
printf("\n enter the array 2 size:\n");
scanf("%d",&size2);
printf("\n enter array 2 elements:\n");
for(i=0; i<size2 ;i++)
{
scanf("%d",&arr2[i]);
merge[k]=arr2[i];
k++;
}
printf("\n the new array after merging is:\n");
for(i=0; i<k ;i++)
printf("%d",merge[i]);
getch();
return 0;
}
```

Your Input Goes Here...!!!

Runtime Error

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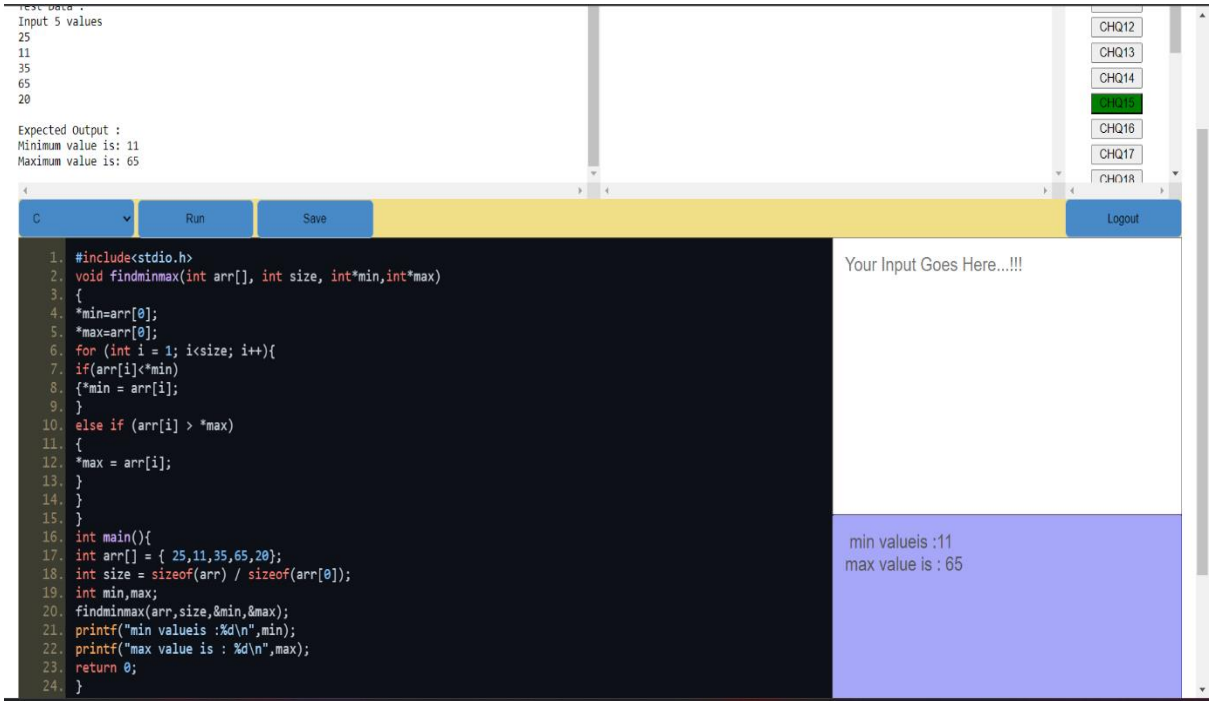

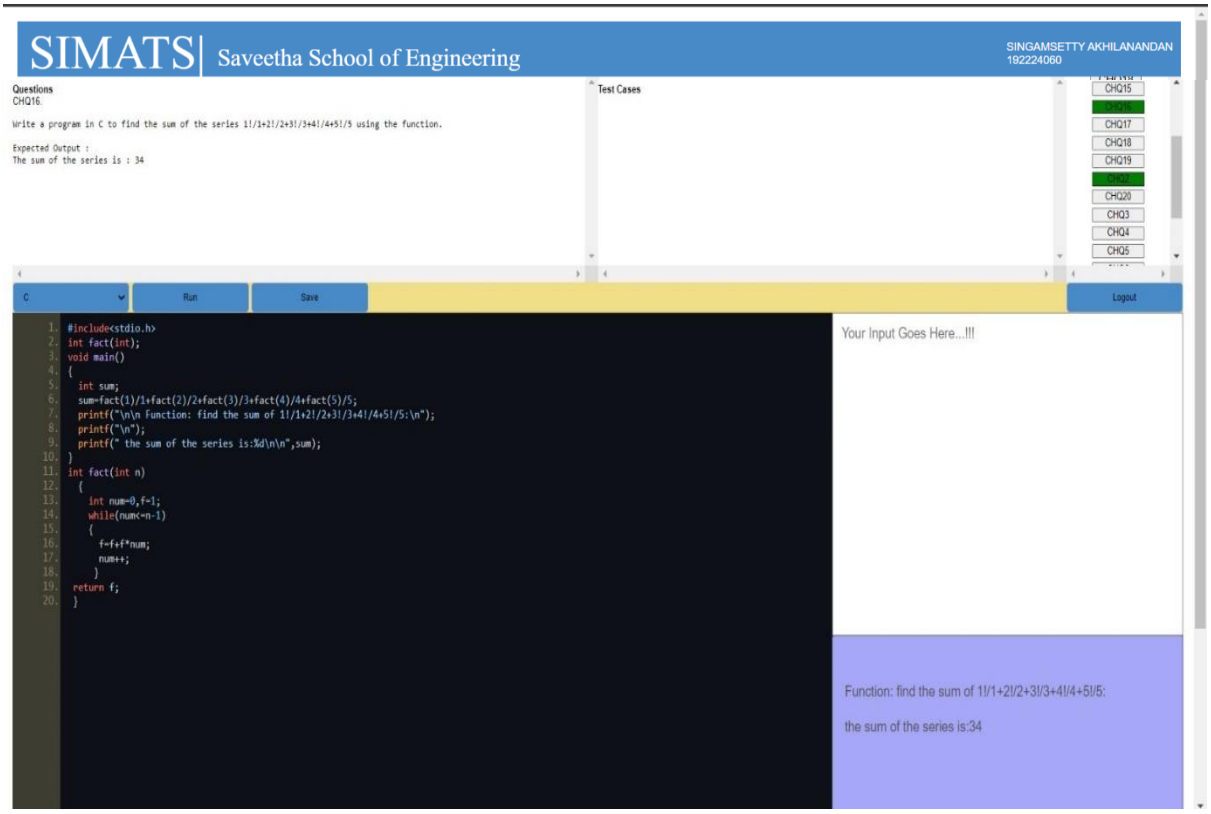

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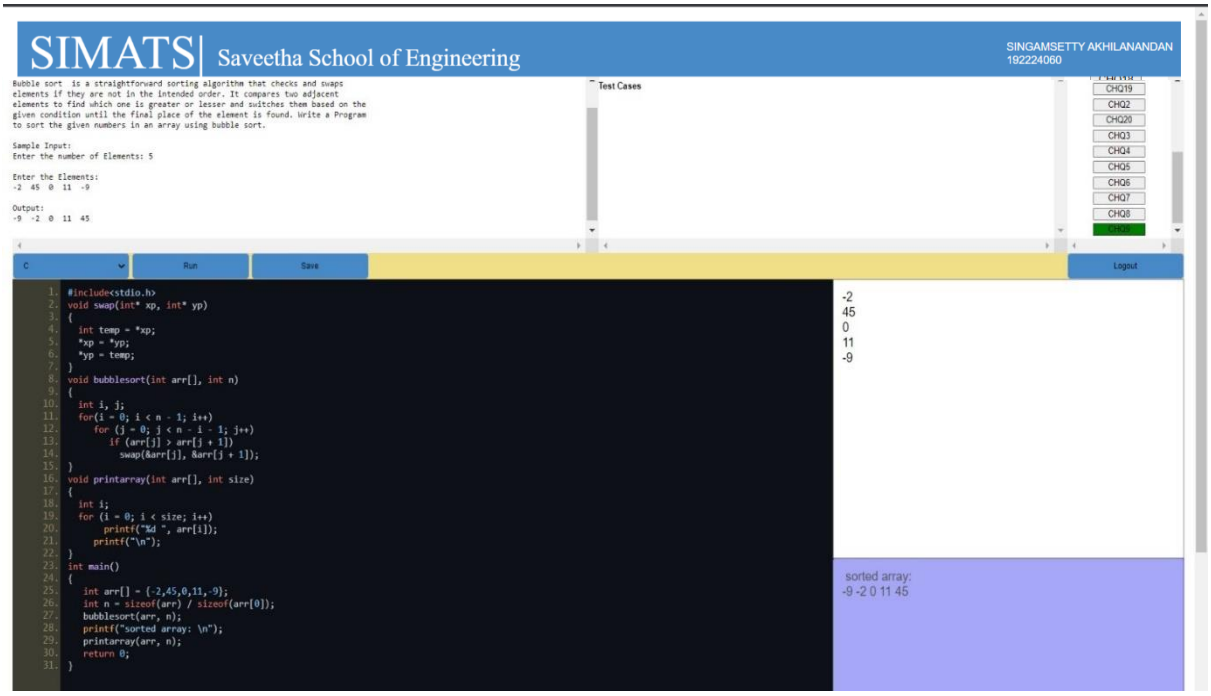

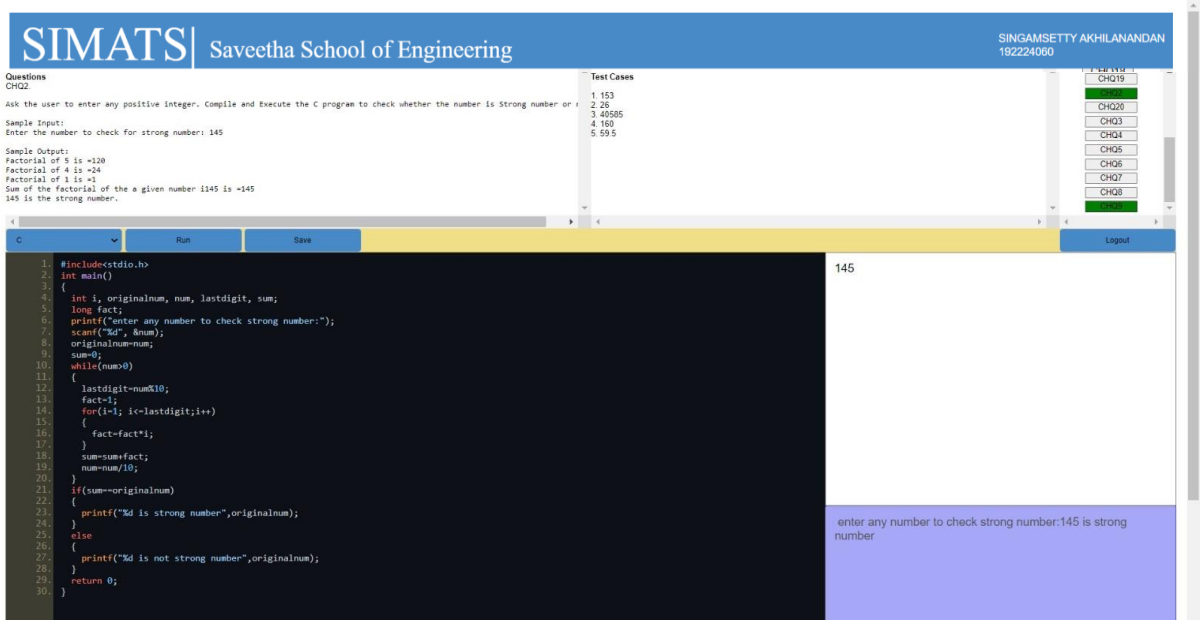

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Questions
CHQ5.

Write a program in C to check Armstrong and perfect numbers using the function.

Test Data :
Input any number: 371
Expected Output :
The 371 is an Armstrong number.
The 371 is not a Perfect number.

Test Cases

CHQ18 CHQ19 CHQ2 CHQ20 CHQ3 CHQ4 CHQ5 CHQ6 CHQ7 CHQ8

C | Run | Save | Logout

```c
#include<stdio.h>
int isarmstrong(int n){
int sum=0,temp=n,digit;
while(temp!=0){
digit=temp%10;
sum+=(digit*digit*digit);
temp/=10;
}
return sum==n;
}
int isperfect(int n){
int sum=0,i;
for(i=1;i<=n/2;i++)
if(n%2==0){
sum+=i;
}
return sum==n;
}
int main(){
int n;
printf("Enter a number:");
scanf("%d",&n);
if(isarmstrong(n)){
printf("\n%d is armstrong number",n);
}else{
printf("\n%d is not armstrong number",n);
}
if(isperfect(n)){
printf("\n%d is perfect number",n);
}
else{
printf("\n%d is not perfect number",n);
}
return 0;
```

371

Enter a number:
371 is armstrong number
371 is not perfect number

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Questions
CHQ3.

Write a program in C to check whether two given strings are an anagram.

Test Data :
Input the first String : spare
Input the second String : pears

Expected Output :
spare and pears are Anagram.

Test Cases

1. X = below , N = elbow
2. X = arc , N = @rc
3. X = study , N = dusty
4. X = laying , N = lying
5. X = abc, N = bac

CHQ17 CHQ18 CHQ19 CHQ2 CHQ20 CHQ3 CHQ4 CHQ5 CHQ6 CHQ7

C | Run | Save | Logout

```c
fgets(str1,sizeof str1,stdin);
printf("input the second string:");
fgets(str2,sizeof str2,stdin);
if(checkanagram(str1,str2)==1)
{
str1[strlen(str1)-1]='\0';
str2[strlen(str2)-1]='\0';
printf("%s and %s are anagram.\n\n",str1,str2);
}
else
{
str1[strlen(str1)-1]='\0';
str2[strlen(str2)-1]='\0';
printf("%S and %s are not anagram.\n\n",str1,str2);
}
return 0;
}
int checkanagram(char *str1,char *str2)
int str1chrctr[256] = {0}, str2chrctr[256] = {0};
```

Your Input Goes Here...!!!

<pre>ExecutionFolder/192224094.c: In function 'checkanagram':

DAY-5 PROGRAMES

DAY-5 PROGRAMES