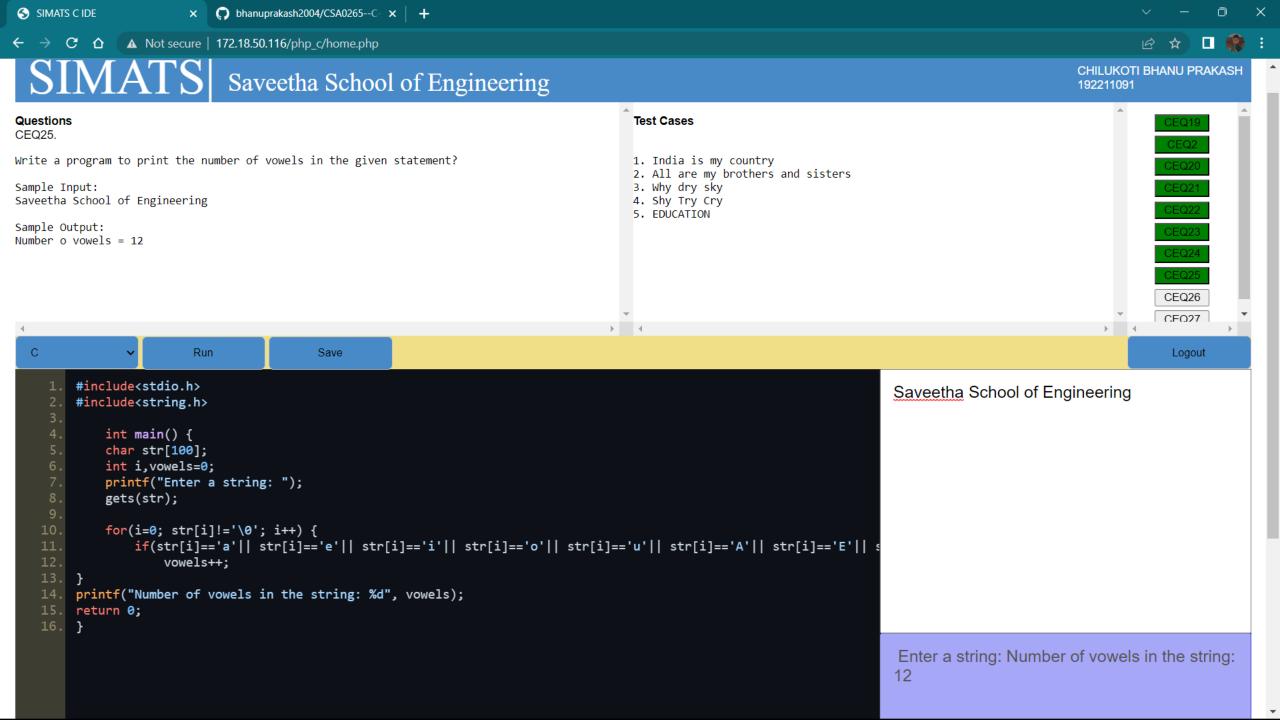
## CSA-0265 C-programming

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CE

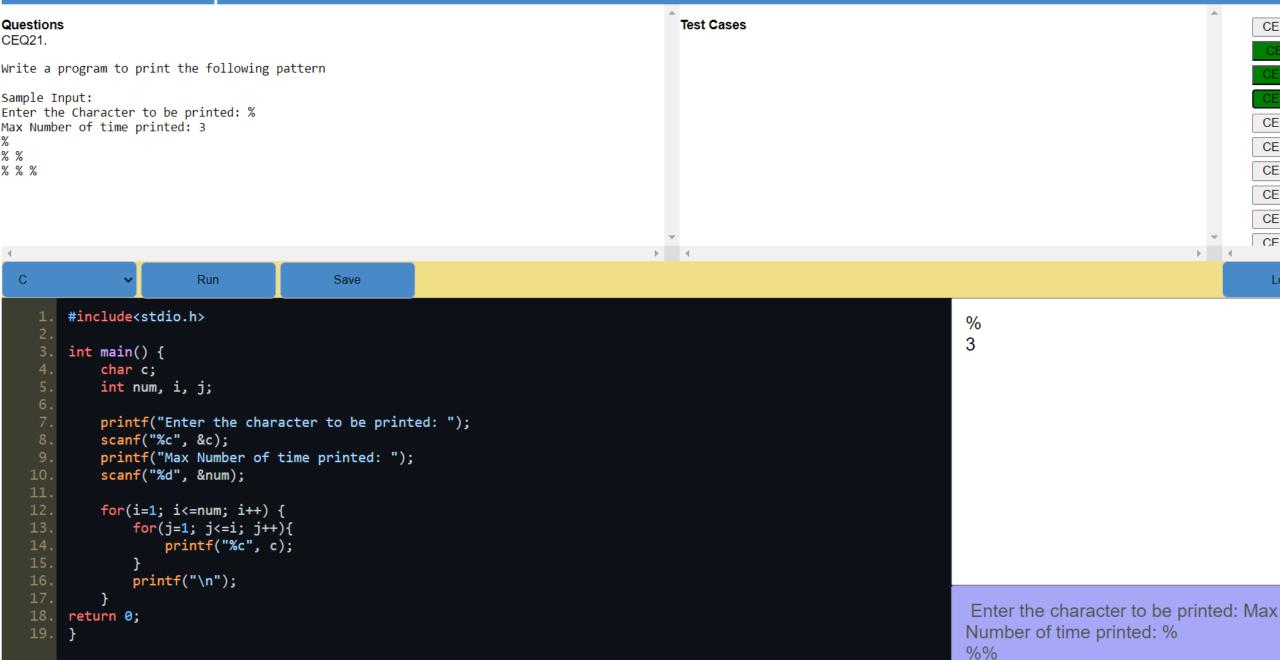
CE

CE CE CE CF

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```
estions
                                                                                       Test Cases
Q20.
nd the factorial of n?
                                                                                       1. N = 0
                                                                                       2. N = -5
mple Input:
                                                                                       3. N = 1
                                                                                       4. N = Q
                                                                                       5. N = 3A
mple Output:
Factorial = 24
                       Run
                                         Save
      #include<stdio.h>
                                                                                                                            4
      int main() {
              int num, i, factorial = 1;
              printf("Enter the positive integer:");
              scanf("%d", &num);
              if (num < 0) {
                   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);
      return 0;
                                                                                                                             Enter the positive integer: The factorial
 18. }
                                                                                                                            24
```

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```
Questions
CEQ23.
Find the number of factors for the given number
Sample Input:
Given number: 100
Sample Output:
Number of factors = 9
```

```
Test Cases
1. 343
2. 1080
3. -243
4. 101010
5. 0
```

```
С
                      Run
                                       Save
      #include<stdio.h>
                                                                                                                     100
          int main() {
          int num, i, factors = 0;
         printf("Enter a number: ");
          scanf("%d",&num);
          for (i = 1; i <=num; i++){
              if(num % i == 0) {
              factors++;
 12.
 13.
      printf("The number of factors of %d is %d\n", num, factors);
 15.
          return 0;
```

Enter a number: The number of facto 100 is 9



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CEQ19

CEQ25 CEQ26 CEQ27

```
Questions
CEQ24.

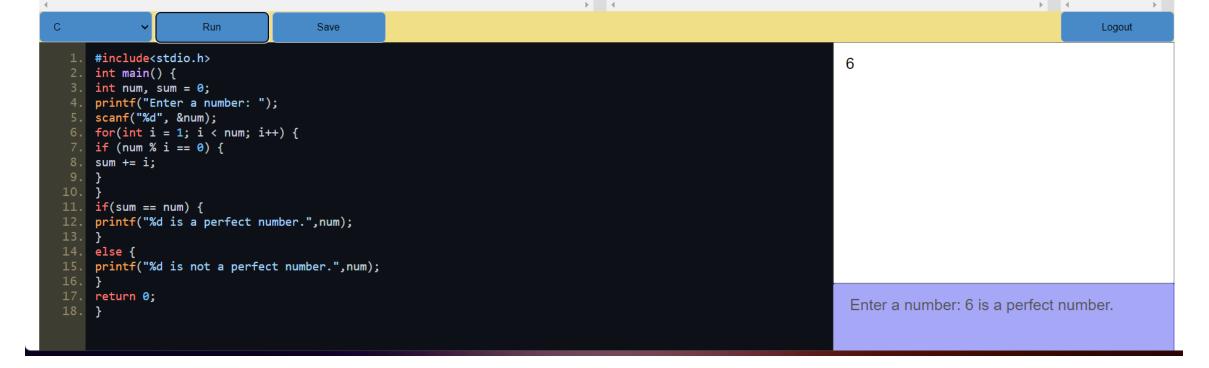
Write a program to print the given number is Perfect number or not?

Sample Input:
Given Number: 6

Sample Output:
It's a Perfect Number

Test Cases

1. 17
2. 26!
3. 143
4. 84.1
5. -963
```



Enter a number: 6 is a perfect number.

16. }

18. }

17. return 0;

