



C- Pool

problem 45

the power series

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Example description

write C program to evaluate the power series

$$e^x = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$$

$$0 < x < 1$$

Hint: $e^x = T_0 + T_1 + T_2 + \dots + T_n = \text{sum}$.

Expected Output

```
Enter value of x:5  
Terms = 21 Sum = 148.413177
```