S.No: 7	Exp. Name: ***Design a C program which determines factorial of numbers***	Date:2023-04-02

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Aim:

Design a C program which determines the numbers whose factorial values are between(including) minimum and maximum values.

For example: The value of 6! is 720, 7! is 5040 and 8! is 40320. The factorial of 7 (5040) exists between the given limits.

Constraints: 1 <= min,max <= 103

Instruction: Your input and output layout must match exactly with the layout of the visible sample test cases.

Source Code:

factorial.c

```
#include<stdio.h>
int main()
{
   int fact=1,i,max,min,x=1;
   printf("Min: ");
   scanf("%d",&min);
   printf("Max: ");
   scanf("%d",&max);
   printf("Values: " , min, max);
   for(i=1;i<=max;i++)
   {
      fact=fact*i;
      if(fact>=min && fact<=max)
      {
         if(x==1)
         {
            printf("%d ",i);
            x=0;
         }
         else
         printf("%d ",i);
      }

   }
   printf("\n");
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Min: 5
Max: 10
Values: 3

Test Case - 2
User Output
Min: 5
Max: 29
Values: 3 4