

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: $1 \leq \text{min}, \text{max} \leq 103$

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: ");
    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