Srinivasa Ramanujan Institute of Technology

2022-2026-CSE-A

Aim:

Construct an algorithm which computes the sum of the factorials of numbers between m and n

Exp. Name: Construct an algorithm which computes the sum of the factorials of

Constraints:

m < n

Sample input output

Sample input output -1:

```
Enter m value: 3
Enter n value: 1
m value should be less than n
```

numbers between m and n

Sample input output -2:

```
Enter m value: 4
Enter n value: 6
Sum of factorials of numbers between 4 and 6 is 864
```

Sample input output -3:

```
Enter m value: 10
Enter n value: 13
Sum of factorials of numbers between 10 and 13 is 6749568000
```

Note: Do use the printf() function with a newline character (\n) at the end.

Note: Use an appropriate data type for the variable storing the sum to accommodate large factorial values.

Source Code:

fact.c

```
fact=fact*i;
         }
         sum=sum+fact;
      printf("%ld\n",sum);
  }
  else
  printf("m value should be less than n\n");
  return 0;
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter m value: 10
Enter n value: 13
Sum of factorials of numbers between 10 and 13 is 6749568000

Test Case - 2
User Output
Enter m value: 3
Enter n value: 1
m value should be less than n