1. Write a C program that will compute the value of and sinx for any value of x using the following equation. Compute upto nth term. Take x and n as input.

1. Write a program that will take as input two integers and outputs the Lowest Common Multiplier (LCM) of them. For example for 3 and 5 the LCM is 15.
2. Write a program that will take two integers n1, n2 as input and find out the number of prime numbers in the range [n1,n2].
3. Write a C program that will output a triangle made of stars like below. Here number of lines in the triangle will be input to your program.

|  |  |
| --- | --- |
| Sample Input | Sample Output |
| 5 | |  |  |  |  |  | | --- | --- | --- | --- | --- | | **\*** | **\*** | **\*** | **\*** | **\*** | |  | **\*** | **\*** | **\*** | **\*** | |  |  | **\*** | **\*** | **\*** | |  |  |  | **\*** | **\*** | |  |  |  |  | **\*** | |

1. Write a C program that will take two integers as input. And depending on the input it will print a staircase using the character \*.

|  |  |
| --- | --- |
| Sample Input | Sample Output |
| 3 2 | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  |  |  |  | \* | \* | |  |  |  |  | \* | \* | |  |  | \* | \* | \* | \* | |  |  | \* | \* | \* | \* | | \* | \* | \* | \* | \* | \* | | \* | \* | \* | \* | \* | \* | |
| 5 1 | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  | \* | |  |  |  | \* | \* | |  |  | \* | \* | \* | |  | \* | \* | \* | \* | | \* | \* | \* | \* | \* | |