Cpp Logic Building

GFG - Examples

1. Check Even or Odd
2. Multiplication Table
3. Sum of Naturals
4. Sum of Squares of Naturals
5. Swap Two Numbers
6. Closest Number
7. Dice Problem
8. Nth Term of AP
9. Sum of Digits
10. Reverse Digits
11. Prime Testing
12. Check Power
13. Distance between Two Points
14. Valid Triangle
15. Overlapping Rectangles
16. Factorial of a Number
17. Pair Cube Count
18. GCD or HCF
19. LCM of Two Numbers
20. Perfect Number

21. Add Two Fraction
22. Day of the Week
23. Nth Fibonacci Number
24. Decimal to Binary
25. N-th term of 1, 3, 6, 10, 15, 21…
26. Armstrong Number
27. Palindrome Number
28. Digit Root
29. Square Root
30. 3 Divisors
31. Divisible by 4
32. Divisibility by 11
33. Divisibility by 13
34. K-th Digit in a^b
35. Fraction to Recurring Decimal
36. Recurring Sequence in a Fraction
37. Compute nPr
38. Compute nCr
39. Pascal's Triangle
40. All Factor (Or Divisors)
41. Prime Factorization
42. Largest Prime factor

43. Modular Exponentiation
44. nth Catalan Number
45. Binomial Coefficient
46. Power Set
47. NSieve of Eratosthenes
48. Clock Angle Problem
49. Tower of Hanoi
50. Rat and Poisoned
51. 8 puzzle Problem
52. Determinant of a Matrix
53. Euler's Totient Function
54. Josephus Problem
55. ext Permutation
56. Right Half Pyramid
57. Inverted Right Half Pyramid
58. Inverted Left Half Pyramid
59. Left Half Pyramid
60. Full Pyramid
61. Inverted Full Pyramid
62. Half Diamond Star
63. Diamond Shape
64. Alphabet “A” using Stars

65. Solid and Hollow Square
66. Hollow Rectangle or Square Star
67. Stair Case Patterns
68. Triangular patterns of Alphabets
69. Swastika Pattern
70. Circle Pattern
71. Diagonal Star Patterns
72. Solid and Hollow Rhombus
73. Butterfly Pattern
74. Sierpinski Triangle
75. Diagonal Patterns
76. Arrow Pattern
77. Pattern of Numbers
78. Pyramid Pattern
79. Alphabets A to Z in Star
80. Reverse Character Bridge
81. V and Inverted-V
82. Trapezium Pattern
83. Number with Star
84. Numbers with Diamond
85. Hour-glass Pattern
86. Inner Reducing pattern

87. Numbers
88. Prime Numbers
89. Arithmetic Progression
90. Geometric Progression
91. GCD and LCM
92. Factorial
93. Permutation and Combination
94. Catalan Number
95. Modular Arithmetic
96. Sum of Naturals
97. Sum of Squares of Naturals
98. Nth Term of AP
99. Nth Term of GP
100. Nth Triangular Number
101. Sum of Sums of Natural Numbers
102. Count Digits
103. Sum of Digits
104. Reverse Digits
105. K-th Digit in a^b
106. Palindrome Number
107. GCD of Two Numbers
108. LCM of Two Numbers

109. Add two fractions
110. Check for Co-Prime
111. Factorial of a Number
112. GCD of more than 2
113. LCM of more than 2
114. Padovan Sequence
115. Pair Cube Count
116. Sum of 2, 22, 222, ...
117. Sum of 1^2 + 3^2 + 5^2 + . . . + (2*n – 1)^2
118. Sum of 0.6, 0.06, 0.006, 0.0006, ...to n terms
119. n-th term of 2, 12, 36, 80, 150....
120. Digit Root
121. Fibonacci Numbers
122. Lucas Number
123. Check for Power
124. Three Divisors
125. Square Root
126. Binomial Coefficient
127. Pascal Triangle
128. nth Row of the Pascal Triangle
129. Armstrong Numbers
130. Determinant of a Matrix

131. Modular Exponentiation
132. Check for Perfect Squares
133. Divisibility by 3
134. Divisibility by 4
135. Divisibility by 7
136. Divisibility by 11
137. Divisibility by 13
138. Divisibility by 29
139. Linear Diophantine Equations
140. Euler's Totient Function
141. Sieve of Eratosthenes
142. All Divisors
143. Prime Factorization
144. Largest Prime Factor
145. Factorial of a Large Number
146. Largest Power Divisible in Factorial
147. Last Non-zero Digit of Factorial
148. Power Set
149. Add Two Polynomials
150. All Permutations of a String
151. Next Permutation
152. Check for Carmichael Numbers

153. Collatz sequence
154. Grid Unique Paths
155. Nth Even Fibonacci Number
156. Last 2 Digits of Nth Fibonacci
157. Josephus Problem
158. Water Jug Tutorial
159. Segmented Sieve
160. k-th prime factor
161. N-th Root
162. Sum of Digits in Factorial
163. Egg Dropping
164. Next String
165. Print 1 to n without loop
166. Print n to 1 without loop
167. Mean of Array using Recursion
168. Sum of natural numbers using recursion
169. Decimal to binary number using recursion
170. Sum of array elements using recursion
171. Print reverse of a string using recursion
172. Program for length of a string using recursion
173. Sum of digit of a number using recursion
174. Tail recursion to calculate sum of array elements.

175. Program to print first n Fibonacci Numbers | Set 1
176. Factorial of a number
177. Array Min and Max using Recursion
178. Palindrome Check using Recursion
179. Count Set-bits using Recursion
180. Fibonacci Series in reverse order using Recursion