C Programs for final:

1. Math function –
2. abs()
3. sqrt()
4. pow()
5. ceil()
6. floor()
7. trunc()
8. round()
9. Conditional Statement
10. Odd or even
11. Positive, negative or zero
12. Maximum or Equal
13. Minimum or equal
14. Maximum, minimum or equal
15. Maximum minimum of 3 numbers
16. Leap year
17. Capital or small letter
18. Vowel or consonant
19. Pass or fail
20. Determine the letter grade
21. Roots of quadratic equation
22. Simple calculator
23. Loops
24. GCD & LCM
25. Sum of the digit of an integer
26. Reverse an integer
27. Palindrome number
28. Counting number of a digit
29. Armstrong number
30. Prime coprime or not
31. Strong number
32. Exercise – Prime number (1-100)
33. Series

01. 1+2+3+......+n  
02. 1+3+5+7+.......+n  
03. 2+4+6+8+......+n  
04. 1\*2+2\*3+3\*4+......+n1\*n2  
05. 1\*3+2\*5+3\*7+.......+n1\*n2  
06. 1\*3\*4+2\*5\*6+3\*7\*8+........+n1\*n2\*n3  
07. 1^2+2^2+3^2+.......+n^2  
08. 1+1/2+1/3+......+1/n  
09. 1\*2\*3\*4\*5\*......\*n  
10. 1^2\*2^2\*3^2\*.......\*n^2  
11. 1-2+3-4+5-........+n  
12. Fibonacci series - 0 1 1 2 3 5 8...... n

1. Pattern
2. Type 01
3. 1

1 2

1 2 3

1 2 3 4

1. 1

1 0

1 0 1

1 0 1 0

1. A

A B

A B C

A B C D

1. \*

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1. 1

2 2

3 3 3

4 4 4 4

1. 1

0 0

1 1 1

0 0 0 0

1. A

B B

C C C

D D D D

1. #

# #

# # #

# # # #

1. Type 02
2. 1 2 3 4

1 2 3

1 2

1

1. 1 0 1 0

1 0 1

1 0

1

1. A B C D

A B C

A B

A

1. \* \* \* \*

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1. 4 4 4 4

3 3 3

2 2

1

1. 0 0 0 0

1 1 1

0 0

1

1. D D D D

C C C

B B

A

1. # # # #

# # #

# #

#

1. Type 03
2. 1

1 2

1 2 3

1 2 3 4

1 2 3

1 2

1

1. 1

1 0

1 0 1

1 0 1 0

1 0 1

1 0

1

1. A

A B

A B C

A B C D

A B C

A B

A

1. \*

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1. 1

2 2

3 3 3

4 4 4 4

3 3 3

2 2

1

1. 1

0 0

1 1 1

0 0 0 0

1 1 1

0 0

1

1. A

B B

C C C

D D D D

C C C

B B

A

1. #

# #

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#

1. Type 04
2. 1

1 2

1 2 3

1 2 3 4

1. 1

1 0

1 0 1

1 0 1 0

1. A

A B

A B C

A B C D

1. \*

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1. 1

2 2

3 3 3

4 4 4 4

1. 1

0 0

1 1 1

0 0 0 0

1. A

B B

C C C

D D D D

1. #

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# # # #

1. Type 05
2. 1 2 3 4

1 2 3

1 2

1

1. 1 0 1 0

1 0 1

1 0

1

1. A B C D

A B C

A B

A

1. \* \* \* \*

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1. 4 4 4 4

3 3 3

2 2

1

1. 0 0 0 0

1 1 1

0 0

1

1. D D D D

C C C

B B

A

1. # # # #

# # #

# #

#

1. Type 06
2. 1

1 2

1 2 3

1 2 3 4

1 2 3

1 2

1

1. 1

1 0

1 0 1

1 0 1 0

1 0 1

1 0

1

1. A

A B

A B C

A B C D

A B C

A B

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1. 1

2 2

3 3 3

4 4 4 4

3 3 3

2 2

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1. 1

0 0

1 1 1

0 0 0 0

1 1 1

0 0

1

1. A

B B

C C C

D D D D

C C C

B B

A

1. #

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1. Array 1D
2. Find Sum of 1D Array (when array size is known)
3. Find Sum of 1D Array (when array size is unknown)
4. Find Maximum of an Array
5. Find Minimum of an Array
6. Fibonacci Series Using Array
7. Perform Linear Search
8. Copy All the Elements of One Array to Another Array
9. Array 2D
10. Create a Simple Matrix and Display It
11. Matrix Addition
12. Matrix Multiplication
13. Transpose Matrix
14. Diagonal, Upper & Lower Triangle Elements
15. Matrix Subtraction for 2D array
16. String

01.

1. Function
2. Pointer