**List of star pattern programming exercises**

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[\*](https://codeforwin.org/2015/07/c-program-to-print-heart-star-pattern.html)

[Heart Star Pattern](https://codeforwin.org/2015/07/c-program-to-print-heart-star-pattern.html)

[\*\*\*\*\* \*\*\*\*\*](https://codeforwin.org/2016/08/c-program-to-print-heart-star-pattern-with-center-name.html)

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[Heart Star Pattern with Name](https://codeforwin.org/2016/08/c-program-to-print-heart-star-pattern-with-center-name.html)

### Square number patterns

[11111](https://codeforwin.org/2016/06/c-program-to-print-0-1-square-number-pattern.html)

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[5 4 4 4 4 4 4 4 5](https://codeforwin.org/2016/06/number-pattern-17-in-c.html)

[5 4 3 3 3 3 3 4 5](https://codeforwin.org/2016/06/number-pattern-17-in-c.html)

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[5 4 3 3 3 3 3 4 5](https://codeforwin.org/2016/06/number-pattern-17-in-c.html)

[5 4 4 4 4 4 4 4 5](https://codeforwin.org/2016/06/number-pattern-17-in-c.html)

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[Number pattern 18](https://codeforwin.org/2016/06/number-pattern-17-in-c.html)

[1 2 3 4 5](https://codeforwin.org/2016/06/c-program-to-print-perfect-square-number-pattern.html" \o "Perfect square number pattern)

[16 17 18 19 6](https://codeforwin.org/2016/06/c-program-to-print-perfect-square-number-pattern.html" \o "Perfect square number pattern)

[15 24 25 20 7](https://codeforwin.org/2016/06/c-program-to-print-perfect-square-number-pattern.html" \o "Perfect square number pattern)

[14 23 22 21 8](https://codeforwin.org/2016/06/c-program-to-print-perfect-square-number-pattern.html" \o "Perfect square number pattern)

[13 12 11 10 9](https://codeforwin.org/2016/06/c-program-to-print-perfect-square-number-pattern.html" \o "Perfect square number pattern)

[Number pattern 19](https://codeforwin.org/2016/06/c-program-to-print-perfect-square-number-pattern.html)

### Triangle Easy Number Patterns

[1](https://codeforwin.org/2016/06/number-pattern-19-in-c.html)

[22](https://codeforwin.org/2016/06/number-pattern-19-in-c.html)

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[9](https://codeforwin.org/2016/06/c-program-to-print-odd-number-pattern.html)

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[1](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-1.html)

[10](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-1.html)

[101](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-1.html)

[1010](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-1.html)

[10101](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-1.html)

[Number pattern 35](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-1.html)

[1](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-2.html)

[00](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-2.html)

[111](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-2.html)

[0000](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-2.html)

[11111](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-2.html)

[Number pattern 36](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-2.html)

[1](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-3.html)

[01](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-3.html)

[010](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-3.html)

[1010](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-3.html)

[10101](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-3.html)

[Number pattern 37](https://codeforwin.org/2016/10/triangle-number-pattern-using-0-1-in-c-3.html)

[1](https://codeforwin.org/2016/10/triangle-number-pattern-using-01-in-c-4.html)

[11](https://codeforwin.org/2016/10/triangle-number-pattern-using-01-in-c-4.html)

[101](https://codeforwin.org/2016/10/triangle-number-pattern-using-01-in-c-4.html)

[1001](https://codeforwin.org/2016/10/triangle-number-pattern-using-01-in-c-4.html)

[11111](https://codeforwin.org/2016/10/triangle-number-pattern-using-01-in-c-4.html)

[Number pattern 38](https://codeforwin.org/2016/10/triangle-number-pattern-using-01-in-c-4.html)

### Triangle Hard Number Patterns

[1](https://codeforwin.org/2016/06/number-pattern-34-in-c.html)

[123](https://codeforwin.org/2016/06/number-pattern-34-in-c.html)

[12345](https://codeforwin.org/2016/06/number-pattern-34-in-c.html)

[1234567](https://codeforwin.org/2016/06/number-pattern-34-in-c.html)

[123456789](https://codeforwin.org/2016/06/number-pattern-34-in-c.html)

[Number pattern 39](https://codeforwin.org/2016/06/number-pattern-34-in-c.html)

[1](https://codeforwin.org/2016/06/number-pattern-35-in-c.html)

[24](https://codeforwin.org/2016/06/number-pattern-35-in-c.html)

[135](https://codeforwin.org/2016/06/number-pattern-35-in-c.html)

[2468](https://codeforwin.org/2016/06/number-pattern-35-in-c.html)

[13579](https://codeforwin.org/2016/06/number-pattern-35-in-c.html)

[Number pattern 40](https://codeforwin.org/2016/06/number-pattern-35-in-c.html)

[1](https://codeforwin.org/2016/10/number-pattern-39-in-c.html)

[131](https://codeforwin.org/2016/10/number-pattern-39-in-c.html)

[13531](https://codeforwin.org/2016/10/number-pattern-39-in-c.html)

[1357531](https://codeforwin.org/2016/10/number-pattern-39-in-c.html)

[135797531](https://codeforwin.org/2016/10/number-pattern-39-in-c.html)

[Number pattern 41](https://codeforwin.org/2016/10/number-pattern-39-in-c.html)

[2](https://codeforwin.org/2016/10/even-number-pattern-2-in-c.html)

[242](https://codeforwin.org/2016/10/even-number-pattern-2-in-c.html)

[24642](https://codeforwin.org/2016/10/even-number-pattern-2-in-c.html)

[2468642](https://codeforwin.org/2016/10/even-number-pattern-2-in-c.html)

[2468108642](https://codeforwin.org/2016/10/even-number-pattern-2-in-c.html)

[Number pattern 42](https://codeforwin.org/2016/10/even-number-pattern-2-in-c.html)

[1](https://codeforwin.org/2016/09/number-pattern-37-in-c.html)

[121](https://codeforwin.org/2016/09/number-pattern-37-in-c.html)

[12321](https://codeforwin.org/2016/09/number-pattern-37-in-c.html)

[1234321](https://codeforwin.org/2016/09/number-pattern-37-in-c.html)

[123454321](https://codeforwin.org/2016/09/number-pattern-37-in-c.html)

[Number pattern 43](https://codeforwin.org/2016/09/number-pattern-37-in-c.html)

[1](https://codeforwin.org/2016/10/number-pattern-38-in-c.html)

[32](https://codeforwin.org/2016/10/number-pattern-38-in-c.html)

[4543](https://codeforwin.org/2016/10/number-pattern-38-in-c.html)

[567654](https://codeforwin.org/2016/10/number-pattern-38-in-c.html)

[67898765](https://codeforwin.org/2016/10/number-pattern-38-in-c.html)

[Number pattern 44](https://codeforwin.org/2016/10/number-pattern-38-in-c.html)

[1](https://codeforwin.org/2016/06/number-pattern-36-in-c.html)

[2 3](https://codeforwin.org/2016/06/number-pattern-36-in-c.html)

[4 5 6](https://codeforwin.org/2016/06/number-pattern-36-in-c.html)

[7 8 9 10](https://codeforwin.org/2016/06/number-pattern-36-in-c.html)

[11 12 13 14 15](https://codeforwin.org/2016/06/number-pattern-36-in-c.html)

[Number pattern 45](https://codeforwin.org/2016/06/number-pattern-36-in-c.html)

[1](https://codeforwin.org/2016/10/number-pattern-41-in-c.html)

[21](https://codeforwin.org/2016/10/number-pattern-41-in-c.html)

[123](https://codeforwin.org/2016/10/number-pattern-41-in-c.html)

[4321](https://codeforwin.org/2016/10/number-pattern-41-in-c.html)

[12345](https://codeforwin.org/2016/10/number-pattern-41-in-c.html)

[Number pattern 46](https://codeforwin.org/2016/10/number-pattern-41-in-c.html)

[1](https://codeforwin.org/2016/09/number-pattern-36-in-c.html)

[23](https://codeforwin.org/2016/09/number-pattern-36-in-c.html)

[4567](https://codeforwin.org/2016/09/number-pattern-36-in-c.html)

[89123456](https://codeforwin.org/2016/09/number-pattern-36-in-c.html)

[7891234567891234](https://codeforwin.org/2016/09/number-pattern-36-in-c.html)

[Number pattern 47](https://codeforwin.org/2016/09/number-pattern-36-in-c.html)

[1 1](https://codeforwin.org/2016/10/number-pattern-40-in-c.html)

[12 21](https://codeforwin.org/2016/10/number-pattern-40-in-c.html)

[123 321](https://codeforwin.org/2016/10/number-pattern-40-in-c.html)

[1234 4321](https://codeforwin.org/2016/10/number-pattern-40-in-c.html)

[1234554321](https://codeforwin.org/2016/10/number-pattern-40-in-c.html)

[Number pattern 48](https://codeforwin.org/2016/10/number-pattern-40-in-c.html)

[1](https://codeforwin.org/2016/10/number-pattern-42-in-c.html)

[2 6](https://codeforwin.org/2016/10/number-pattern-42-in-c.html)

[3 7 10](https://codeforwin.org/2016/10/number-pattern-42-in-c.html)

[4 8 11 13](https://codeforwin.org/2016/10/number-pattern-42-in-c.html)

[5 9 12 14 15](https://codeforwin.org/2016/10/number-pattern-42-in-c.html)

[Number pattern 49](https://codeforwin.org/2016/10/number-pattern-42-in-c.html)

[1](https://codeforwin.org/2016/10/number-pattern-43-in-c.html)

[2 4](https://codeforwin.org/2016/10/number-pattern-43-in-c.html)

[7 11 16](https://codeforwin.org/2016/10/number-pattern-43-in-c.html)

[22 29 37 46](https://codeforwin.org/2016/10/number-pattern-43-in-c.html)

[56 67 79 92 106](https://codeforwin.org/2016/10/number-pattern-43-in-c.html)

[Number pattern 50](https://codeforwin.org/2016/10/number-pattern-43-in-c.html)

[1](https://codeforwin.org/2016/10/number-pattern-44-in-c.html)

[3 2](https://codeforwin.org/2016/10/number-pattern-44-in-c.html)

[4 5 6](https://codeforwin.org/2016/10/number-pattern-44-in-c.html)

[10 9 8 7](https://codeforwin.org/2016/10/number-pattern-44-in-c.html)

[11 12 13 14 15](https://codeforwin.org/2016/10/number-pattern-44-in-c.html)

[Number pattern 51](https://codeforwin.org/2016/10/number-pattern-44-in-c.html)

[1](https://codeforwin.org/2016/10/number-pattern-45-in-c.html)

[22](https://codeforwin.org/2016/10/number-pattern-45-in-c.html)

[333](https://codeforwin.org/2016/10/number-pattern-45-in-c.html)

[2222](https://codeforwin.org/2016/10/number-pattern-45-in-c.html)

[11111](https://codeforwin.org/2016/10/number-pattern-45-in-c.html)

[Number pattern 52](https://codeforwin.org/2016/10/number-pattern-45-in-c.html)

[N = 12345](https://codeforwin.org/2016/10/number-pattern-46-in-c.html)

[12345](https://codeforwin.org/2016/10/number-pattern-46-in-c.html)

[1234](https://codeforwin.org/2016/10/number-pattern-46-in-c.html)

[123](https://codeforwin.org/2016/10/number-pattern-46-in-c.html)

[12](https://codeforwin.org/2016/10/number-pattern-46-in-c.html)

[1](https://codeforwin.org/2016/10/number-pattern-46-in-c.html)

[Number pattern 53](https://codeforwin.org/2016/10/number-pattern-46-in-c.html)

[N = 12345](https://codeforwin.org/2016/10/number-pattern-47-in-c.html)

[12345](https://codeforwin.org/2016/10/number-pattern-47-in-c.html)

[2345](https://codeforwin.org/2016/10/number-pattern-47-in-c.html)

[345](https://codeforwin.org/2016/10/number-pattern-47-in-c.html)

[45](https://codeforwin.org/2016/10/number-pattern-47-in-c.html)

[5](https://codeforwin.org/2016/10/number-pattern-47-in-c.html)

[Number pattern 54](https://codeforwin.org/2016/10/number-pattern-47-in-c.html)

### Diamond Number Patterns

[1](https://codeforwin.org/2016/10/number-pattern-49-in-c.html)

[12](https://codeforwin.org/2016/10/number-pattern-49-in-c.html)

[123](https://codeforwin.org/2016/10/number-pattern-49-in-c.html)

[1234](https://codeforwin.org/2016/10/number-pattern-49-in-c.html)

[12345](https://codeforwin.org/2016/10/number-pattern-49-in-c.html)

[1234](https://codeforwin.org/2016/10/number-pattern-49-in-c.html)

[123](https://codeforwin.org/2016/10/number-pattern-49-in-c.html)

[12](https://codeforwin.org/2016/10/number-pattern-49-in-c.html)

[1](https://codeforwin.org/2016/10/number-pattern-49-in-c.html)

[Number pattern 55](https://codeforwin.org/2016/10/number-pattern-49-in-c.html)

[1](https://codeforwin.org/2016/10/number-pattern-50-in-c.html)

[123](https://codeforwin.org/2016/10/number-pattern-50-in-c.html)

[12345](https://codeforwin.org/2016/10/number-pattern-50-in-c.html)

[1234567](https://codeforwin.org/2016/10/number-pattern-50-in-c.html)

[123456789](https://codeforwin.org/2016/10/number-pattern-50-in-c.html)

[1234567](https://codeforwin.org/2016/10/number-pattern-50-in-c.html)

[12345](https://codeforwin.org/2016/10/number-pattern-50-in-c.html)

[123](https://codeforwin.org/2016/10/number-pattern-50-in-c.html)

[1](https://codeforwin.org/2016/10/number-pattern-50-in-c.html)

[Number pattern 56](https://codeforwin.org/2016/10/number-pattern-50-in-c.html)

[1](https://codeforwin.org/2016/12/diamond-number-pattern-program-in-c-3.html)

[121](https://codeforwin.org/2016/12/diamond-number-pattern-program-in-c-3.html)

[12321](https://codeforwin.org/2016/12/diamond-number-pattern-program-in-c-3.html)

[1234321](https://codeforwin.org/2016/12/diamond-number-pattern-program-in-c-3.html)

[123454321](https://codeforwin.org/2016/12/diamond-number-pattern-program-in-c-3.html)

[1234321](https://codeforwin.org/2016/12/diamond-number-pattern-program-in-c-3.html)

[12321](https://codeforwin.org/2016/12/diamond-number-pattern-program-in-c-3.html)

[121](https://codeforwin.org/2016/12/diamond-number-pattern-program-in-c-3.html)

[1](https://codeforwin.org/2016/12/diamond-number-pattern-program-in-c-3.html)

[Number pattern 57](https://codeforwin.org/2016/12/diamond-number-pattern-program-in-c-3.html)

[\*](https://codeforwin.org/2016/12/half-diamond-number-pattern-with-star-border.html)

[\*1\*](https://codeforwin.org/2016/12/half-diamond-number-pattern-with-star-border.html)

[\*121\*](https://codeforwin.org/2016/12/half-diamond-number-pattern-with-star-border.html)

[\*12321\*](https://codeforwin.org/2016/12/half-diamond-number-pattern-with-star-border.html)

[\*1234321\*](https://codeforwin.org/2016/12/half-diamond-number-pattern-with-star-border.html)

[\*123454321\*](https://codeforwin.org/2016/12/half-diamond-number-pattern-with-star-border.html)

[\*1234321\*](https://codeforwin.org/2016/12/half-diamond-number-pattern-with-star-border.html)

[\*12321\*](https://codeforwin.org/2016/12/half-diamond-number-pattern-with-star-border.html)

[\*121\*](https://codeforwin.org/2016/12/half-diamond-number-pattern-with-star-border.html)

[\*1\*](https://codeforwin.org/2016/12/half-diamond-number-pattern-with-star-border.html)

[\*](https://codeforwin.org/2016/12/half-diamond-number-pattern-with-star-border.html)

[Number pattern 58](https://codeforwin.org/2016/12/half-diamond-number-pattern-with-star-border.html)

### Tricky Number Patterns

[1 1](https://codeforwin.org/2016/11/c-program-to-print-x-number-pattern.html)

[2 2](https://codeforwin.org/2016/11/c-program-to-print-x-number-pattern.html)

[3 3](https://codeforwin.org/2016/11/c-program-to-print-x-number-pattern.html)

[4 4](https://codeforwin.org/2016/11/c-program-to-print-x-number-pattern.html)

[5](https://codeforwin.org/2016/11/c-program-to-print-x-number-pattern.html)

[4 4](https://codeforwin.org/2016/11/c-program-to-print-x-number-pattern.html)

[3 3](https://codeforwin.org/2016/11/c-program-to-print-x-number-pattern.html)

[2 2](https://codeforwin.org/2016/11/c-program-to-print-x-number-pattern.html)

[1 1](https://codeforwin.org/2016/11/c-program-to-print-x-number-pattern.html)

[Number pattern 59](https://codeforwin.org/2016/11/c-program-to-print-x-number-pattern.html)

1. [Write a C program to find cube of any number using function](https://codeforwin.org/2016/02/c-program-to-find-cube-of-number-using-function.html). DONE
2. [Write a C program to find diameter, circumference and area of circle using functions](https://codeforwin.org/2016/02/c-program-to-find-diameter-circumference-and-area-of-circle-using-function.html).
3. [Write a C program to find maximum and minimum between two numbers using functions](https://codeforwin.org/2016/02/c-program-to-find-maximum-and-minimum-using-functions.html).
4. [Write a C program to check whether a number is even or odd using functions](https://codeforwin.org/2016/02/c-program-to-check-even-or-odd-using-functions.html). DONE
5. [Write a C program to check whether a number is prime, Armstrong or perfect number using functions](https://codeforwin.org/2016/02/c-program-to-check-prime-armstrong-perfect-number-using-functions.html). DOne
6. [Write a C program to find all prime numbers between given interval using functions](https://codeforwin.org/2016/02/c-program-to-find-prime-numbers-between-two-intervals-using-function.html). DONE
7. [Write a C program to print all strong numbers between given interval using functions](https://codeforwin.org/2016/03/c-program-to-find-all-strong-numbers-between-two-interval-using-function.html).
8. [Write a C program to print all Armstrong numbers between given interval using functions](https://codeforwin.org/2016/03/c-program-to-print-armstrong-numbers-between-1-to-n-using-function.html).
9. [Write a C program to print all perfect numbers between given interval using functions](https://codeforwin.org/2016/03/c-program-to-print-all-perfect-numbers-between-1-to-n-using-function.html).
10. [Write a C program to find power of any number using recursion](https://codeforwin.org/2016/02/c-program-to-find-power-of-any-number-using-recursion.html). DONE
11. [Write a C program to print all natural numbers between 1 to n using recursion](https://codeforwin.org/2016/02/c-program-to-print-all-natural-numbers-in-given-range-using-recursion.html). Done
12. [Write a C program to print all even or odd numbers in given range using recursion](https://codeforwin.org/2016/03/c-program-to-print-even-odd-numbers-using-recursion.html).
13. [Write a C program to find sum of all natural numbers between 1 to n using recursion](https://codeforwin.org/2016/02/c-program-to-find-sum-of-natural-numbers-using-recursion.html).
14. [Write a C program to find sum of all even or odd numbers in given range using recursion](https://codeforwin.org/2016/03/c-program-to-find-sum-of-even-odd-number-using-recursion.html).
15. [Write a C program to find reverse of any number using recursion](https://codeforwin.org/2016/03/c-program-to-find-reverse-of-number-using-recursion.html).
16. [Write a C program to check whether a number is palindrome or not using recursion](https://codeforwin.org/2016/03/c-program-to-check-palindrome-number-using-recursion.html).
17. [Write a C program to find sum of digits of a given number using recursion](https://codeforwin.org/2016/03/c-program-to-calculate-sum-of-digits-using-recursion.html).
18. [Write a C program to find factorial of any number using recursion](https://codeforwin.org/2016/02/c-program-to-find-factorial-of-number-using-recursive-function.html).
19. [Write a C program to generate nth Fibonacci term using recursion](https://codeforwin.org/2016/02/c-program-to-generate-nth-fibonacci-series-using-recursion.html).
20. [Write a C program to find GCD (HCF) of two numbers using recursion](https://codeforwin.org/2016/03/c-program-to-find-gcd-of-two-numbers-using-recursion.html).
21. [Write a C program to find LCM of two numbers using recursion](https://codeforwin.org/2016/03/c-program-to-find-lcm-of-two-numbers-using-recursion.html).
22. [Write a C program to display all array elements using recursion](https://codeforwin.org/2016/03/c-program-to-print-elements-of-array-using-recursion.html). DONE
23. [Write a C program to find sum of elements of array using recursion](https://codeforwin.org/2016/03/c-program-to-find-sum-of-array-elements-using-recursion.html).
24. [Write a C program to find maximum and minimum elements in array using recursion](https://codeforwin.org/2016/04/c-program-to-find-maximum-and-minimum-in-array-using-recursion.html).
25. [Write a C program to read and print elements of array](https://codeforwin.org/2015/07/c-program-to-read-and-print-elements-in-array.html). - using [recursion](https://codeforwin.org/2016/03/c-program-to-print-elements-of-array-using-recursion.html).
26. [Write a C program to print all negative elements in an array](https://codeforwin.org/2015/07/c-program-to-print-all-negative-elements-in-array.html).
27. [Write a C program to find sum of all array elements](https://codeforwin.org/2015/07/c-program-to-find-sum-of-all-elements-of-array.html). - using [recursion](https://codeforwin.org/2016/03/c-program-to-find-sum-of-array-elements-using-recursion.html).
28. [Write a C program to find maximum and minimum element in an array](https://codeforwin.org/2015/07/c-program-to-find-maximum-and-minimum-element-in-array.html). - using [recursion](https://codeforwin.org/2016/04/c-program-to-find-maximum-and-minimum-in-array-using-recursion.html). DONE
29. [Write a C program to find second largest element in an array](https://codeforwin.org/2015/11/c-program-to-find-second-largest-number-in-array.html).
30. [Write a C program to count total number of even and odd elements in an array](https://codeforwin.org/2016/09/c-program-to-count-even-odd-elements-in-array.html).
31. [Write a C program to count total number of negative elements in an array](https://codeforwin.org/2015/07/c-program-to-count-negative-elements-in-array.html).
32. [Write a C program to copy all elements from an array to another array](https://codeforwin.org/2015/07/c-program-to-copy-all-elements-of-array-to-another.html).
33. [Write a C program to insert an element in an array](https://codeforwin.org/2015/07/c-program-to-insert-element-in-array.html).
34. [Write a C program to delete an element from an array at specified position](https://codeforwin.org/2015/07/c-program-to-delete-element-from-array.html).
35. [Write a C program to count frequency of each element in an array](https://codeforwin.org/2015/07/c-program-to-find-frequency-of-each-element-in-array.html).
36. [Write a C program to print all unique elements in the array](https://codeforwin.org/2015/07/c-program-to-print-all-unique-element-in-array.html).
37. [Write a C program to count total number of duplicate elements in an array](https://codeforwin.org/2015/07/c-program-count-number-of-duplicate-element-in-array.html).
38. [Write a C program to delete all duplicate elements from an array](https://codeforwin.org/2015/07/c-program-to-delete-duplicate-elements-from-array.html).
39. [Write a C program to merge two array to third array](https://codeforwin.org/2015/07/c-program-to-merge-two-array.html).
40. [Write a C program to find reverse of an array](https://codeforwin.org/2015/07/c-program-to-find-reverse-of-array.html).
41. [Write a C program to put even and odd elements of array in two separate array](https://codeforwin.org/2016/01/c-program-to-put-even-and-odd-elements-in-two-separate-array.html).
42. [Write a C program to search an element in an array](https://codeforwin.org/2015/07/c-program-to-search-element-in-array.html).
43. [Write a C program to sort array elements in ascending or descending order](https://codeforwin.org/2015/07/c-program-to-sort-array-in-ascending-order.html).
44. [Write a C program to sort even and odd elements of array separately](https://codeforwin.org/2016/01/c-program-to-sort-even-odd-elements-of-array-separately.html).
45. [Write a C program to left rotate an array](https://codeforwin.org/2017/03/c-program-to-left-rotate-array.html).
46. [Write a C program to right rotate an array](https://codeforwin.org/2017/03/c-program-to-right-rotate-array.html).

### List of matrix programming exercises

1. [Write a C program to add two matrices](https://codeforwin.org/2015/07/c-program-to-add-two-matrices.html).
2. [Write a C program to subtract two matrices](https://codeforwin.org/2015/07/c-program-to-subtract-two-matrices.html).
3. [Write a C program to perform Scalar matrix multiplication](https://codeforwin.org/2015/07/scalar-multiplication-of-matrix-program-in-c.html).
4. [Write a C program to multiply two matrices](https://codeforwin.org/2015/07/c-program-to-multiply-two-matrices.html).
5. [Write a C program to check whether two matrices are equal or not](https://codeforwin.org/2015/07/c-program-to-check-two-matrices-are-equal-or-not.html).
6. [Write a C program to find sum of main diagonal elements of a matrix](https://codeforwin.org/2015/07/c-program-to-find-sum-of-main-diagonal-elements-of-matrix.html).
7. [Write a C program to find sum of minor diagonal elements of a matrix](https://codeforwin.org/2015/07/c-program-to-find-sum-of-minor-diagonal-element-of-matrix.html).
8. [Write a C program to find sum of each row and column of a matrix](https://codeforwin.org/2015/07/c-program-to-find-sum-of-row-and-column-of-matrix.html).
9. [Write a C program to interchange diagonals of a matrix](https://codeforwin.org/2015/07/c-program-to-interchange-diagonals-of-matrix.html).
10. [Write a C program to find upper triangular matrix](https://codeforwin.org/2015/08/c-program-to-find-upper-triangular-matrix.html).
11. [Write a C program to find lower triangular matrix](https://codeforwin.org/2015/08/c-program-to-find-lower-triangular-matrix.html).
12. [Write a C program to find sum of upper triangular matrix](https://codeforwin.org/2015/08/c-program-to-find-sum-of-upper-triangular-matrix.html).
13. [Write a C program to find sum of lower triangular matrix](https://codeforwin.org/2015/08/c-program-to-find-sum-of-lower-triangular-matrix.html).
14. [Write a C program to find transpose of a matrix](https://codeforwin.org/2015/08/c-program-to-find-transpose-of-matrix.html).
15. [Write a C program to find determinant of a matrix](https://codeforwin.org/2015/08/c-program-to-find-determinant-of-matrix.html).
16. [Write a C program to check Identity matrix](https://codeforwin.org/2015/08/c-program-to-check-identity-matrix.html).
17. [Write a C program to check Sparse matrix](https://codeforwin.org/2015/08/c-program-to-check-sparse-matrix.html).
18. [Write a C program to check Symmetric matrix](https://codeforwin.org/2015/08/c-program-to-check-symmetric-matrix.html).

## List of string programming exercises

1. [Write a C program to find length of a string](https://codeforwin.org/2015/04/c-program-to-calculate-length-of-string.html).
2. [Write a C program to copy one string to another string](https://codeforwin.org/2015/11/c-program-to-copy-one-string-to-another.html).
3. [Write a C program to concatenate two strings](https://codeforwin.org/2015/11/c-program-to-concatenate-two-strings.html).
4. [Write a C program to compare two strings](https://codeforwin.org/2015/11/c-program-to-compare-two-strings.html).
5. [Write a C program to convert lowercase string to uppercase](https://codeforwin.org/2015/04/c-program-convert-lower-case-string-to-upper.html).
6. [Write a C program to convert uppercase string to lowercase](https://codeforwin.org/2015/04/c-program-convert-upper-case-string-to-lower.html).
7. [Write a C program to toggle case of each character of a string](https://codeforwin.org/2016/04/c-program-to-toggle-case-of-each-character-in-string.html).
8. [Write a C program to find total number of alphabets, digits or special character in a string](https://codeforwin.org/2015/11/c-program-to-find-total-number-of-alphabets-digits-special-characters-in-string.html).
9. [Write a C program to count total number of vowels and consonants in a string](https://codeforwin.org/2015/04/c-program-to-calculate-total-number-of-vowels-and-consonants.html).
10. [Write a C program to count total number of words in a string](https://codeforwin.org/2015/04/c-program-to-calculate-total-number-of-words.html).
11. [Write a C program to find reverse of a string](https://codeforwin.org/2015/04/c-program-to-print-reverse-of-string.html).
12. [Write a C program to check whether a string is palindrome or not](https://codeforwin.org/2015/04/c-program-to-check-palindrome.html).
13. [Write a C program to reverse order of words in a given string](https://codeforwin.org/2016/10/c-program-to-reverse-order-of-words-in-string.html).
14. [Write a C program to find first occurrence of a character in a given string](https://codeforwin.org/2015/11/c-program-to-find-first-occurrence-of-character-in-string.html).
15. [Write a C program to find last occurrence of a character in a given string](https://codeforwin.org/2015/12/c-program-to-find-last-occurrence-of-character-in-string.html).
16. [Write a C program to search all occurrences of a character in given string](https://codeforwin.org/2016/04/c-program-to-search-all-occurrences-of-character-in-string.html).
17. [Write a C program to count occurrences of a character in given string](https://codeforwin.org/2016/04/c-program-to-count-all-occurrences-of-character-in-string.html).
18. [Write a C program to find highest frequency character in a string](https://codeforwin.org/2016/04/c-program-to-find-maximum-occurring-character-in-string.html).
19. [Write a C program to find lowest frequency character in a string](https://codeforwin.org/2016/04/c-program-to-find-minimum-occurring-character-in-string.html).
20. [Write a C program to count frequency of each character in a string](https://codeforwin.org/2015/04/c-program-to-calculate-the-frequency-of-each-character-in-a-line.html).
21. [Write a C program to remove first occurrence of a character from string](https://codeforwin.org/2015/12/c-program-to-remove-first-occurrence-of-character-from-string.html).
22. [Write a C program to remove last occurrence of a character from string](https://codeforwin.org/2015/12/c-program-to-remove-last-occurrence-of-character-from-string.html).
23. [Write a C program to remove all occurrences of a character from string](https://codeforwin.org/2015/12/c-program-to-remove-all-occurrences-of-character-from-string.html).
24. [Write a C program to remove all repeated characters from a given string](https://codeforwin.org/2016/04/c-program-to-remove-all-repeated-characters-in-string.html).
25. [Write a C program to replace first occurrence of a character with another in a string](https://codeforwin.org/2016/04/c-program-to-replace-first-occurrence-of-character-in-string.html).
26. [Write a C program to replace last occurrence of a character with another in a string](https://codeforwin.org/2016/04/c-program-to-replace-last-occurrence-of-character-in-string.html).
27. [Write a C program to replace all occurrences of a character with another in a string](https://codeforwin.org/2016/04/c-program-to-replace-all-occurrences-of-character-in-string.html).
28. [Write a C program to find first occurrence of a word in a given string](https://codeforwin.org/2015/11/c-program-to-find-first-occurrence-of-word-in-string.html).
29. [Write a C program to find last occurrence of a word in a given string](https://codeforwin.org/2016/04/c-program-to-find-last-occurrence-of-word-in-string.html).
30. [Write a C program to search all occurrences of a word in given string](https://codeforwin.org/2016/04/c-program-to-search-all-occurrences-of-word-in-string.html).
31. [Write a C program to count occurrences of a word in a given string](https://codeforwin.org/2016/04/c-program-to-count-occurrences-of-word-in-string.html).
32. [Write a C program to remove first occurrence of a word from string](https://codeforwin.org/2015/12/c-program-to-remove-first-occurrence-of-word-from-string.html).
33. [Write a C program to remove last occurrence of a word in given string](https://codeforwin.org/2016/04/c-program-to-remove-last-occurrence-of-word-in-string.html).
34. [Write a C program to remove all occurrence of a word in given string](https://codeforwin.org/2016/04/c-program-to-remove-all-occurrences-of-word-in-string.html).
35. [Write a C program to trim leading white space characters from given string](https://codeforwin.org/2016/04/c-program-to-trim-leading-white-spaces-in-string.html).
36. [Write a C program to trim trailing white space characters from given string](https://codeforwin.org/2016/04/c-program-to-trim-trailing-white-space-characters-in-string.html).
37. [Write a C program to trim both leading and trailing white space characters from given string](https://codeforwin.org/2016/04/c-program-to-trim-both-leading-and-trailing-white-spaces-in-string.html).
38. [Write a C program to remove all extra blank spaces from given string](https://codeforwin.org/2016/04/c-program-to-remove-spaces-blanks-from-string.html).

## List of pointer programming exercises

1. [Write a C program to create, initialize and use pointers](https://codeforwin.org/2017/01/c-program-to-demonstrate-use-of-pointers.html).
2. [Write a C program to add two numbers using pointers](https://codeforwin.org/2017/01/c-program-to-add-two-numbers-using-pointers.html).
3. [Write a C program to swap two numbers using pointers](https://codeforwin.org/2017/01/c-program-to-swap-two-numbers-using-call-by-reference.html).
4. [Write a C program to input and print array elements using pointer](https://codeforwin.org/2017/11/c-program-input-print-array-elements-using-pointers.html).
5. [Write a C program to copy one array to another using pointers](https://codeforwin.org/2017/11/c-program-to-copy-one-array-to-another-using-pointers.html).
6. [Write a C program to swap two arrays using pointers](https://codeforwin.org/2017/11/c-program-to-swap-two-arrays-using-pointers.html).
7. [Write a C program to reverse an array using pointers](https://codeforwin.org/2017/11/c-program-reverse-array-using-pointers.html).
8. [Write a C program to search an element in array using pointers](https://codeforwin.org/2017/11/c-program-to-search-element-in-array-using-pointers.html).
9. [Write a C program to access two dimensional array using pointers](https://codeforwin.org/2017/12/access-two-dimensional-array-using-pointers-c-programming.html).
10. [Write a C program to add two matrix using pointers](https://codeforwin.org/2017/12/c-program-add-two-matrix-using-pointers.html).
11. [Write a C program to multiply two matrix using pointers](https://codeforwin.org/2017/12/c-program-multiply-two-matrix-using-pointers.html).
12. [Write a C program to find length of string using pointers](https://codeforwin.org/2015/04/c-program-to-calculate-length-of-string.html#program-using-pointer).
13. [Write a C program to copy one string to another using pointers](https://codeforwin.org/2015/11/c-program-to-copy-one-string-to-another.html#program-using-pointer).
14. [Write a C program to concatenate two strings using pointers](https://codeforwin.org/2015/11/c-program-to-concatenate-two-strings.html#program-using-pointer).
15. [Write a C program to compare two strings using pointers](https://codeforwin.org/2015/11/c-program-to-compare-two-strings.html#program-using-pointer).
16. [Write a C program to find reverse of a string using pointers](https://codeforwin.org/2015/04/c-program-to-print-reverse-of-string.html#program-using-pointer).
17. [Write a C program to sort array using pointers](https://codeforwin.org/2017/12/c-program-sort-array-using-pointers.html).
18. [Write a C program to return multiple value from function using pointers](https://codeforwin.org/2017/12/return-multiple-value-from-function-c-programming.html).
19. [Write a C program to create a file and write contents, save and close the file.](https://codeforwin.org/2018/01/c-program-create-file-write-contents.html)
20. [Write a C program to read file contents and display on console.](https://codeforwin.org/2018/01/c-program-read-and-display-file-contents.html)
21. [Write a C program to read numbers from a file and write even, odd and prime numbers to separate file.](https://codeforwin.org/2018/01/c-program-write-even-odd-prime-numbers-separate-file.html)
22. [Write a C program to append content to a file.](https://codeforwin.org/2018/02/c-program-append-data-file.html)
23. [Write a C program to compare two files.](https://codeforwin.org/2018/02/c-program-compare-two-files.html)
24. [Write a C program to copy contents from one file to another file.](https://codeforwin.org/2018/02/c-program-to-copy-file.html)
25. [Write a C program to merge two file to third file.](https://codeforwin.org/2018/02/c-program-merge-two-files.html)
26. [Write a C program to count characters, words and lines in a text file.](https://codeforwin.org/2018/02/c-program-count-characters-words-lines-in-file.html)
27. [Write a C program to remove a word from text file.](https://codeforwin.org/2018/02/c-program-remove-word-from-file.html)
28. [Write a C program to remove specific line from a text file.](https://codeforwin.org/2018/02/c-program-remove-specific-line-from-file.html)
29. [Write a C program to remove empty lines from a text file.](https://codeforwin.org/2018/02/c-program-remove-empty-lines-from-file.html)
30. [Write a C program to find occurrence of a word in a text file.](https://codeforwin.org/2018/02/c-program-find-occurrence-of-a-word-in-file.html)
31. [Write a C program to count occurrences of a word in a text file.](https://codeforwin.org/2018/02/c-program-count-occurrences-of-a-word-in-file.html)
32. [Write a C program to count occurrences of all words in a text file.](https://codeforwin.org/2018/02/c-program-count-occurrences-of-all-words-a-file.html)
33. [Write a C program to find and replace a word in a text file.](https://codeforwin.org/2018/02/c-program-find-and-replace-a-word-in-file.html)
34. [Write a C program to replace specific line in a text file.](https://codeforwin.org/2018/02/c-program-replace-specific-line-a-text-file.html)
35. [Write a C program to print source code of same program.](https://codeforwin.org/2018/03/c-program-print-source-code-of-itself-as-output.html)
36. [Write a C program to convert uppercase to lowercase character and vice versa in a text file.](https://codeforwin.org/2018/03/c-program-to-convert-uppercase-to-lowercase-in-file.html)
37. [Write a C program to find properties of a file using stat() function.](https://codeforwin.org/2018/03/c-program-find-file-properties-using-stat-function.html)
38. [Write a C program to check if a file or directory exists.](https://codeforwin.org/2018/03/c-program-check-file-or-directory-exists-not.html)
39. [Write a C program to rename a file using rename() function.](https://codeforwin.org/2018/03/c-program-rename-a-file-using-rename-function.html)
40. [Write a C program to list all files and sub-directories recursively.](https://codeforwin.org/2018/03/c-program-to-list-all-files-in-a-directory-recursively.html)