

ARRAY QUESTIONS

1. Write a program to reverse an array without using an additional array?
2. How to merge two unsorted arrays in sorted order ?
3. Write a program to merge two sorted arrays?
4. Write a program to merge and sort elements of two different arrays
5. Write a program to print all unique elements in an array.
6. Write a program to remove all the prime numbers in an array
7. Program to find the average of n ($n < 10$) numbers using arrays
8. Program to find the average of n numbers using arrays
9. Write a Program to Delete an Integer from an Array of random numbers
10. Write a program to find the sum of all elements of the array
11. Write a program to copy the elements of one array into another array
12. Write a program to print all unique elements in an array
13. Write a program to insert an element in a specified position in an array
14. Write a program to sort elements of array in ascending order
15. Write a program to insert New value in the array (sorted list)
16. Write a program to sort an array and print the count of unique elements in the array.
17. Write a program to print the sum of unique elements from an array
18. Write a program to delete all the multiples of 5 in an array.
19. Write a program to print an array of random numbers in reverse order.
20. How do you find the duplicate number on a given integer array
21. Write a program to delete two elements after the occurrence of a prime number and replace all even numbers by 0.
22. Write a program to sort an array and print the count of '1' in the array.
23. In an array, replace all the prime numbers with '*' & remove all the odd numbers.
24. Sort the array and replace elements in an odd position with * and remove prime numbers
25. Find the sum of unique prime numbers in an array.
26. In an array remove all the prime numbers greater than 50 and remove all the non-prime numbers less than 50.
27. Write a program to count even and odd numbers in an array and also print the sum of the even numbers in an array.
28. How do you find all pairs of an integer array whose sum is equal to a given number?

29. Write a program to delete two elements after the occurrence of a prime number and replace all even numbers by 3.
30. Write a program to move all zeros to the beginning of an array.
31. Sort the array and replace elements in an odd position with * and remove prime numbers
32. Write a program to read n number of values in an array and display the array after deleting two values next to the multiples of 3.
33. Write a program to read an array and count even and odd numbers in an array and also Print sum of the even numbers in an array.
34. Write a program to sort an array and print the count of '1' in the array.
35. Write a program to delete two elements after the occurrence of an even number
36. Write a program to find array elements that repeat 2 times in the array.
37. Write a program to move all zeros to the end of an array
38. Write a program to merge two arrays of the same size sorted in descending order.
39. Write a program to count the frequency of each element of an array.
40. Write a program to find the maximum and minimum element in an array.
41. Write a program to separate odd and even integers in separate arrays.
42. Write a program to insert New value in the array (sorted list).
43. Write a program to insert New value in the array (unsorted list) in (specific position).
44. Write a program to count the total number of duplicate elements in an array.
45. Write a program to print all unique elements in an array.
46. Write a program to print all prime numbers in an array.
47. Write a program to merge two arrays sorted in descending order.
48. Write a program to count the frequency of each element of an array.
49. Write a program to separate odd and even numbers in separate arrays.
50. Write a program to delete an element at a specific position from an array.
51. Write a program to find the second largest number in an array.
52. Write a program to find the second smallest number in an array.
53. Write a program to find the two repeating elements in a given array.
54. Write a program to separate prime and non-prime numbers in separate arrays.
55. Write a program to move all zeros(0's) to the end of a given array.

56. Write a program to move all zeros(0's) to the beginning of a given array.
57. Write a program to delete all duplicate elements from an array
58. Write a program to insert element in an array at specified position
59. Write a program to print all negative elements in an array
60. Write a program to count the total number of negative elements in an array.
61. Write a program to replace all Even numbers by 0 and Odd numbers by 1.
62. Write a program to replace all prime numbers by 0 and non-prime numbers by 1.
63. Write a program to sort and reverse an array.
64. Write a program to sort elements of array in ascending order
65. Write a program to sort elements of array in descending order
66. Write a program to find the average of numbers in an array.
67. Write a program to separate positive and negative numbers in separate arrays.
68. Write a program to count the total number of unique elements in an array.
69. Write a program to count the total number of prime numbers in an array.
70. Write a program to delete all prime numbers in an array.

PATTERN PRINTING

1. Write a program to print the following star pattern

```
* *  
*  
*  
*  
* * * *  
* * * *  
*  
*  
*  
* * * * *  
* * * * *  
* * * * *
```

2. Write a program to print the following star pattern

```
*  
* * *  
*  
* * *  
* * *  
*  
* * *  
* * *  
* * *  
*  
* * *  
* * *  
* * *  
* * *
```

3. Write a program to print the following star pattern

```
* * *  
* * *  
*  
* * * * *  
* * * * *  
*  
*  
* * * * * * *  
* * * * * * *
```

4. Write a program to print the following star pattern

```
* * * *
* *
* * * * * * *
* * *
* * * * * * * * *
* * * *
* * * * * * * * * * * *
```

6. Write a program to print the following star pattern

```
* * * * *
*
* * * * * * * *
*
*
* * * * * * * * *
*
*
*
* * * * * * * * * * * *
```

7. Write a program to print the following star pattern

```
* *
* * * * *
* *
* *
* * * * * * *
* *
* *
* *
* * * * * * * * *
* *
* *
* *
* * *
```

8. Write a program to print the following star pattern

```
* * * * *
*
*
* * *
*
*
* * * * *
*
*
* * *
*
*
* * * * *
```

10. Write a program to print the following star pattern

```
* *
* *
* * * * *
* *
* *
* * * * * * * * *
* *
* *
* * * * * * * * * * *
```

11. Write a program to print the following star pattern

```
* * * * *
*
*
* * * * * * * * *
*
*
*
*
* * * * * * * * * *
*
*
*
*
*
*
```

12. Print this pattern

```
* *  
* *  
* *  
* *  
*  
* *  
* *  
* *  
* *
```

13. Print the array elements in the following pattern.

```
* * * * *  
*  
*  
*  
* * * * * * * * *  
*  
*  
*  
*  
*  
*  
* * * * * * * * * * * *
```

14. Write a program to print the following star pattern.

```
* *  
*  
* * * *  
*  
*  
*  
* * * * * * *  
*  
*  
*  
*  
*
```

16. Write a program to print the following star pattern.

```
* * *
*
*
*
* * * * *
* * * * *
*
*
*
* * * * * * *
* * * * * * *
* * * * * * *
```

17. Write a program to print the following star pattern

```
  *
  *
 * * *
 * *
 * *
 * * * * *
 * * *
 * * *
 * * * * * * *
```

18. Write a program to print the following number pattern.

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
```

19. Write a program to print the following Alphabets pattern.

```
I
I N
I N D
I N D I
I N D I A
```


20. Write a program to print the following Alphabets pattern.

```
M
M A
M A L
M A L A
M A L A Y
M A L A Y A
M A L A Y A L
M A L A Y A L A
M A L A Y A L A M
```

21. Write a program to print the following pattern

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

22. Write a program to print the following pattern

```
1 2 3 4 5
2 4 6 8
3 6 9
4 8
5
```

23. Write a program to print the following pattern

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
```

24. Write a program to print the following pattern

```
A
1 1
B B B
2 2 2 2
CCCCC
3 3 3 3 3
DDDDDDD
```

25. Write a program to print the following pattern

```
1
2 * 2
3 * 3 * 3
4 * 4 * 4 * 4
4 * 4 * 4 * 4
3 * 3 * 3
2 * 2
1
```

26. Write a program to print the following pattern

```
      *
     * *
    * *
   * *
  * *
 * *
* *
 * *
  * *
   * *
    * *
     *
      *
```

27. Write a program to print the following pattern

```
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
```

28. Write a program to print the following pattern

```
1
2 3 2
3 4 5 4 3
4 5 6 7 6 5 4
```

29. Write a program to print the following pattern



30. Write a program to print the following pattern

```
*  
* *  
* *  
* *  
* *  
*****
```

31. Write a program to print the following pattern

```
*****  
*****  
*****  
****  
***  
**  
*  
**  
***  
****  
*****  
*****  
*****
```

32. Write a program to print the following pattern

```
1  
2 3  
4 5 6  
7 8 9 10  
11 12 13 14 15  
16 17 18 19 20 21
```

33. Write a program to print the following pattern

```
A
B B
C C C
D D D D
E E E E E
F F F F F F
```

35. Write a program to print the following pattern

1
2 2
3 3
4 4
5 5

36. Write a program to print the following pattern

```
A B C D E
A B C D
A B C
A B
A
```

38. Write a program to print the following star pattern.

```

* * * * *
*
* * * * *
*
*
* * * * *
*
*
*
* * * *
*
*
*
*
* *
*
*
*
*
*

```

39. Write a program to print the following star pattern.

```
* * * * *
```

```
* * * *
```

```
* * * *
```

```
* * *
```

```
* * * *
```

```
* * * *
```

```
* * * * *
```

40. Write a program to print the following star pattern.

```
* * *
```

```
*
```

```
*
```

```
*
```

```
* * * * *
```

```
* * * * *
```

```
*
```

```
*
```

```
*
```

```
* * * * *
```

```
* * * * *
```

```
* * * * *
```

41. Write a program to print the following star pattern.

```
* * * * *
```

```
*
```

```
* * * * *
```

```
*
```

```
*
```

```
* * * * *
```

```
*
```

```
*
```

```
*
```

```
* * * * *
```

```
*
```

```
*
```

```
*
```

```
*
```

```
* * * * *
```

45 . Write a program to print the following star pattern

```
* * * * *
*
*
* * *
*
*
* * * * *
*
*
* * *
*
*
* * * * *
```

42. Write a program to print the following star pattern

```
*
* * *
*
* * *
* * *
*
* * *
* * *
* * *
*
* * *
* * *
* * *
* * *
```

43 . Write a program to print the following star pattern

```
X
X X
X X X
X
X X
X X X
X X X X
X
X X
X X X
X X X X
X X X X X
```

44 . Write a program to print the following star pattern

```
X X X X
X X X
X
X
```

```

X
X X X
X X
X
X
X
X X
X

```

46. Write a program to print the following pattern.

```

* * * * *
* * * * *
* * * * *
* * * * *
* * * * *

```

47. Write a program to print the following pattern.

```

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1

```

48 . Write a program to print the following pattern.

```

1
1 2 3
1 2 3 4 5
1 2 3 4 5 6 7
1 2 3 4 5
1 2 3
1

```

50 . Write a program to print the following pattern.

```

1 1 1 1 1 1
1 1 1 1 2 2
1 1 1 3 3 3
1 1 4 4 4 4
1 5 5 5 5 5
6 6 6 6 6 6

```

49 . Write a program to print the following pattern.

```
1 2 3 4 5 6
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
```

51 . Write a program to print the following pattern.

```
1
2 * 2
3 * 3 * 3
4 * 4 * 4 * 4
4 * 4 * 4 * 4
3 * 3 * 3
2 * 2
1
```

52 . Write a program to print the following pattern.

```
*
$ *
* $ *
$ * $ *
* $ * $ *
```


53. Write a program to print the following star pattern.

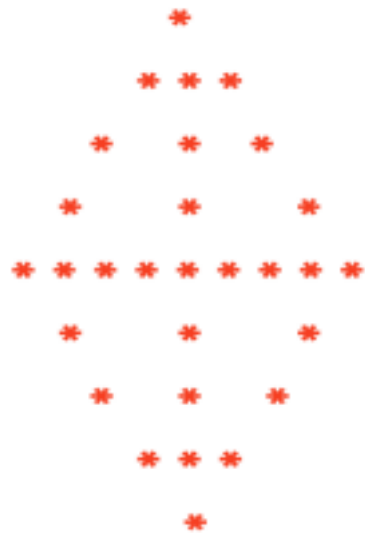
```

      * * * *
    * * * * *
  * * * * * *
* * * * * * *
  * * * * * *
    * * * * *
      * * *
        *
```

54. Print the following pattern

55. Write a program to print the following star pattern

56. Write a program to print the following star pattern



57. Write a program to print the following star pattern

```
X
X X X
X
X
X X X X X X
X
X
X
X X X X X X X X X
```

Write a program to print the following star pattern

```

      *           Left Arrow  *
    *             *
  *               *
 *               *
*               *
*****          *****
 *               *
 *               *
 *               *
*               *
* Right Arrow    *
  
```

Write a program to print the following star pattern

```

*
**
***
****
*****
*****
  
```

Half Pyramid

```

*****
****
***
**
*
  
```

Inverted
Half Pyramid

```

*****
*      *
*      *
*      *
**
*
  
```

Hollow Inverted
Half Pyramid

```

      *
    * *
  * * *
 * * * *
* * * * *
* * * * *
  
```

Full Pyramid

```

* * * * *
 * * * *
  * * *
   * *
    *
  
```

Inverted Full Pyramid

```

      *
    * *
  *   *
 *   *
*     *
*     *
* * * * *
  
```

Hollow Full Pyramid

Write a program to print the following pattern

```

1
1 2 1
1 2 3 2 1
1 2 3 4 3 2 1
1 2 3 4 5 4 3 2 1

A
A B A
A B C B A
A B C D C B A
A B C D E D C B A

```

```

      1
    1 2 1
  1 2 3 2 1
1 2 3 4 3 2 1
1 2 3 4 5 4 3 2 1

*****1*****
*****2*2*****
*****3*3*3*****
*****4*4*4*4*****
*****5*5*5*5*5*****

```

Different types of Palindrome Pyramid Patterns

Write a program to print the following star pattern

```

    ****
    ****
    ****
    ****

    ****
    *  *
    *  *
    ****

```

Solid Rhombus Hollow Rhombus

Write a program to print the following star pattern

```

* * * * *
* * * * *
* * * * *

* * * * *
*
* * * * *

Hollow Rectangle

Solid Rectangle

```