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EXCERCISE

1.

Given an Array that has two element. Find the greater element. Print the element and it's index position.

2.

Given an Array that has three element. Find the greatest element. Print the element and its index position.

3.

An Array has 10 element. Print all the even elements present in the array.

4.

An Array has 10 element. Print all the odd elements present in the array. Also print the total number of odd elements

4.

An Array has 10 element. All the elements are having values between 1 and 30, Print all the prime numbers present in the array. Also print the total number of prime elements found.

5.

An Array has 10 element. All the elements are single character string. Print all the vowels present in the array. Also print the total number of vowels found.

6.

An Array has 10 element. All the elements are single character string. Print total numbers of vowels and consonants present in the array.

7.

rray has 4 element. It is storing the marks of Physics, Chemistry, Maths and Biology ch element respectively. Find the percentage for PCM and PCB

8.

An array of size 5 stores the name of 5 months in it. Print the number of days for each month element of the array.

9.

Given an array, its first element stores a year between 1900 and 2000. Find whether the year is a leap year and store result in the second element of the array.

10.

An array has 9 element.The first three elements of an array stores the year, month and day of the Birthdate of Manoj. The next three elements store Birthdate of Rajan. Find the age difference betweeen Manoj and Rajan and store it in the last three elements.

11.

Given a date find the day of week.

12.

Given a date find the zodiac sign of an individual

13.

Given a date find the Rashi of an individual

14.

Given a birth date , find how many days the person has lived.

15.

An array has 4 elements. The first element stores the number of 2000Rs notes Pankaj has. The second element stores the number of 500Rs notes Pankaj has. The third element strores the number of 100Rs notes Pankaj has. Store in the fourth location the total amount of Rs. Pankaj has.

16.

✕ rray has 3 elements. The first element stores the radius of a circle. Store the area in nd element and circumference in the third element

17.

An array has 4 elements. The first element stores height of a rectangle. The second element stores the width of a rectangle. Store the area in the third element and perimeter in the fourth element

18.

Find frequency of a given number in an array.

19.

Find average of numbers stored in an array.

20.

Given the number of units consumed. Calculate the cost.

Tariff slabs	Fixed Charge	Energy Charge	Wheeling charges	RA charge	FAC rate Paise/unit
	₹/month	₹/unit	₹/unit	₹/unit	APR-20
0-100	70	2.90	1.57	0.00	0.00
101-300	110	4.85	1.57	0.00	0.00
301-500	110	6.65	1.57	0.00	0.00
> 500(balance units)	135	7.80	1.57	0.00	0.00

21.

Given a list of boolean values in array **A** of size 10. Given list of operations in array **B** of size 9. All the operations in **B** are boolean operators stored as Strings.

Operation present in B[0] has to be applied to A[0] and A[1].
Operation present in B[1] has to be applied to the result of B[0] operation and A[2] and so on.

The boolean operations can be "AND", "OR", "NAND", "NOR", "XOR", "XNOR".

Print the final result.

22.

ⓘ

ical Notes Allowed to be stored in a **Tune** Array :- **Sa, Re, Ga, Ma, Pa, Dha, Ni, Sa'**

Raga Bhupali has 5 notes. **Sa, Re, Ga, Pa, Dha, Sa'.**

Araoha :- **Sa, Re, Ga, Pa, Dha, Sa'.** (Ascent)

Avaroha :- **Sa', Dha, Pa, Ga, Re, Sa.** (Descent)

Vadi Swar :- **Ga**

Samvadi Swar :- **Dha**

User must check the **Tune** array, which comprises of atleast 10 notes. If the notes stored in the array are not permitted in the Raga, the program gives error. The program will tell if Tune array has Vadi or Samvadi swar. It will also tell the frequency of each swar present in the Tune array.

23.

Given two array **A** and **B** of size 10. Perform the following operations on the Arrays.
- Add corresponding elements of the two arrays and store the result in a third array
- Sub corresponding elements of the two arrays and store the result in a third array
- multiply corresponding elements of the two arrays and store the result in a third array.

24.

Given two array **A** and **B** of size 10. Merge the two arrays into a third array. Then split Third array into four parts. Each part stored in a different array.

25.

Given a Array of N numbers. The element at zeroth index is called **target**. Find two numbers in the array, starting with index 1 to N-1 such that when added they result in target.

26.

n two arrays A and B, both represent polynomials. Perform operations Addition, Subtraction, Multiplication, and division on them. Each result must be stored in an individual array separately.

Polynomial1 $3x^2 + 4x + 9$ A → [3, 4, 9]

Polynomial2 $5x^2 + 9x - 3$ [5, 9, -3] ← B
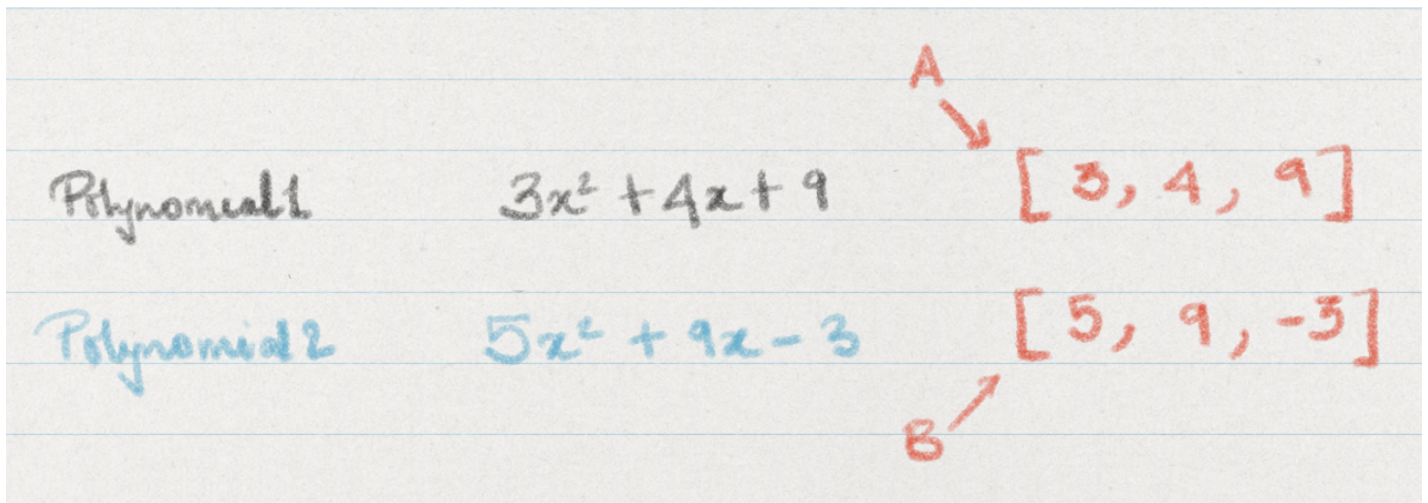
27.

Sort an Array of size N using **Selection Sort.**

28.

Sort an Array of size N using **Bubble Sort.**