

Exercise

- 1- Check n is a prime or not
- 2- Print all primes form n to m
- 3- Print 10 primes $\geq n$
- 4- $ax+b=0$ linear equation
- 5- $ax^2+bx+c=0$ quadric equation
- 6- Convert n from decimal to binary, print the result
 - Using String
 - Using Math
 - Using Array
- 7- Read a file
- 8- Build a struct & Pointer
- 9- Linear Search
- 10- Binary Search
- 11- Given an array of integers, find sum of its elements.

Examples :

Input : `arr[] = {1, 2, 3}`

Output : 6

$1 + 2 + 3 = 6$

Input : `arr[] = {15, 12, 13, 10}`

Output : 50

12- Given an array of n elements, the task is to find the elements that are greater than half of elements in an array. In case of odd elements, we need to print elements larger than $\text{floor}(n/2)$ elements where n is total number of elements in array.

Examples :

Input : `arr[] = {1, 6, 3, 4}`

Output : 4 6

Input : `arr[] = {10, 4, 2, 8, 9}`

Output : 10 9 8

13- Given an array of n distinct elements, the task is to find all elements in array which have at-least two greater elements than themselves.

Examples :

Input : `arr[] = {2, 8, 7, 1, 5};`

Output : 2 1 5

The output three elements have two or more greater elements

Input : `arr[] = {7, -2, 3, 4, 9, -1};`

Output : -2 3 4 -1

14- Given the length of an array of integers **N** and an integer **K**. The task is to modify the array in such a way that the array contains first all odd integers from 1 to **N** in ascending order, then all even integers from 1 to **N** in ascending order and then print the **Kth** element in the modified array.

Examples:

Input: `N = 8, K = 5`

Output: 2

The array will be {1, 3, 5, 7, 2, 4, 6, 8}
and the fifth element is 2.