# Question:

Write a C program that takes the size of an array as input, allows the user to enter the elements of the array, and then prints the odd numbers from the array.

*#include* <stdio.h>

*int* *main*() {

*printf*("Enter sizeof array: ");

*int* *n*;

*scanf*("%d", *&n*);

*int* *arr*[*n*];

*printf*("Enter elements: ");

*for* (*int* *i* *=* 0;*i* *<* *n*;*i++*) {

*scanf*("%d", *&arr*[*i*]);

    }

*printf*("---------\n");

*for* (*int* *i* *=* 0;*i* *<* *n*;*i++*) {

*if* (*arr*[*i*] *%* 2 *!=* 0)

*printf*("%d ", *arr*[*i*]);

    }

*return* 0;

}

**Output:**

Enter sizeof array: 5

Enter elements: 1 2 3 4 5

---------

1 3 5

# Question:

Write a C program that takes an integer n as input, creates an array containing numbers from 1 to n, and then prints the even numbers followed by the odd numbers.

*#include* <stdio.h>

*int* *main*() {

*int* *n*;

*scanf*("%d", *&n*);

*int* *arr*[*n*];

*for* (*int* *i* *=* 0;*i* *<* *n*;*i++*) {

*arr*[*i*] *=* *i+*1;

    }

*for* (*int* *i* *=* 0;*i* *<* *n*;*i++*) {

*if* (*arr*[*i*] *%* 2 *==* 0) *printf*("%d ", *arr*[*i*]);

    }

*printf*("\n");

*for* (*int* *i* *=* 0;*i* *<* *n*;*i++*) {

*if* (*arr*[*i*] *%* 2 *!=* 0) *printf*("%d ", *arr*[*i*]);

    }

*return* 0;

}

**Output:**

2 4 6

1 3 5