Import java.util.Scanner;

Public class ArrayOperations {

Public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Part a – Read 15 values from user and store in an array

Int[] arr = new int[15];

System.out.println(“Enter 15 integers:”);

For (int I = 0; I < arr.length; i++) {

Arr[i] = sc.nextInt();

}

// Part b – Check if a number is present in the array

System.out.println(“Enter a number to search:”);

Int num = sc.nextInt();

Boolean found = false;

Int index = -1;

For (int I = 0; I < arr.length; i++) {

If (arr[i] == num) {

Found = true;

Index = I;

Break;

}

}

If (found) {

System.out.println(“The number found at index “ + index);

} else {

System.out.println(“Number not found in this array”);

}

// Part c – Reverse the array and print

Int[] reverseArr = new int[arr.length];

For (int I = 0; I < arr.length; i++) {

reverseArr[i] = arr[arr.length – I – 1];

}

System.out.println(“Elements of reversed array:”);

For (int I = 0; I < reverseArr.length; i++) {

System.out.print(reverseArr[i] + “ “);

}

System.out.println();

// Part d – Calculate sum and product of elements

Int sum = 0;

Int product = 1;

For (int I = 0; I < arr.length; i++) {

Sum += arr[i];

Product \*= arr[i];

}

System.out.println(“Sum of elements: “ + sum);

System.out.println(“Product of elements: “ + product);

}

}