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// #include <stdio.h>

using System; // namespace

public class HelloWorld

{

// static int[] num = new int[] {9,3,4,5,10,13,20,26,24};

static int[] num = new int[] {3,4,5,9, 10,13,20,26,44};

public static void Main(string[] args)

{

int flag = BinarySearch(100);

if(flag==1)

Console.Write("Element found");

else

Console.Write("Element Not found");

}

static int LinearSearch(int key)

{

int flag=0;

for(int i = 0; i<num.Length;i++)

{

if(num[i] == key)

{

flag=1;

break;

}

}

return flag;

}

static int BinarySearch(int key)

{

int flag=0;

int low=0, high=num.Length-1, mid=(low+high)/2;

while(low < high)

{

if(key == num[mid])

{

flag=1;

return flag;

}

else if(key < num[mid])

{

high = mid-1;

}

else if(key > num[mid])

{

low = mid+1;

}

mid=(low+high)/2;

}

return flag;

}

}