```
using System;
namespace Practica37
  class Busqueda
    private int[] vector;
    public void Cargar()
       Console.WriteLine("Busqueda Binaria");
       Console.WriteLine("Ingrese 10 Elementos");
       string linea;
       vector = new int[10];
       for (int f = 0; f < vector.Length; f++)
          Console.Write("Ingrese elemento " + (f + 1) + ": ");
          linea = Console.ReadLine();
          vector[f] = int.Parse(linea);
    }
    public void busqueda(int num)
       int I = 0, h = 9;
       int m = 0;
       bool found = false;
       while (I <= h && found == false)
          m = (I + h) / 2;
         if (vector[m] == num)
            found = true;
         if (vector[m] > num)
            h = m - 1;
          else
            I = m + 1;
       if (found == false)
       { Console.Write("\nEl elemento {0} no esta en el arreglo", num); }
       else
       { Console.Write("\nEl elemento {0} esta en la posicion: {1}", num, m + 1); }
    public void Imprimir()
```

```
for (int f = 0; f < vector.Length; f++)
    {
        Console.Write(vector[f] + " ");
    }
}

static void Main(string[] args)
{
    Busqueda pv = new Busqueda();
    pv.Cargar();
    pv.Imprimir();
    Console.Write("\n\nElemento a buscar: ");
    int num = int.Parse(Console.ReadLine());
    pv.busqueda(num);
    Console.ReadKey();
}
}</pre>
```