```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace PronicNumber    //Do not change the namespace name
{
   public class Program   //Do not change the class name
   {
      public String Validation(int check)  //Do not change the method signature
      {
         //Implement the code here

         if(check > 0)
            return "yes";
         else
            return "no";



      }
      public int[] PronicNumber(int[] values) //Do not change the method signature
      {
         //Implement the code here
        List<int> ans=new List<int>();
```

```
  foreach(int i in values)
  {
     int x=(int)(Math.Sqrt(i));
     if(x*(x+1)==i){
        ans.Add(i);
     }
  }
   int[]res=ans.ToArray();
return res;
}
public static void Main(string[] args) //Do not change the method signature
{

   //Implement the code here
  // int[] input = new int[]{};
   Program p = new Program();
   Console.WriteLine("Enter the number of values:");
   int val = Convert.ToInt32(Console.ReadLine());
   if(p.Validation(val)=="no"){
      string v=val.ToString();
      Console.WriteLine(v +" is not a valid size");
   }
   else{
      int[] arr=new int[val];
      Console.WriteLine("Enter the numbers");
```

```
            for(int i=0;i<val;i++){
            arr[i]=Convert.ToInt32(Console.ReadLine());
        }
            for(int i=0;i<val;i++){
                if(p.Validation(arr[i])=="yes")
                continue;
                else if(p.Validation(arr[i])=="no")
                {
                    Console.WriteLine(arr[i]+"is not a valid number");
                }
            }
            int[]output=p.PronicNumber(arr);
            for(int j=0;j<output.Length;j++){
                Console.WriteLine(output[j]);
            }
        }
    }
}
```